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Title of Invention:

AN ARTICLE DESIGN CREATING SYSTEM AND METHOD OF THE SAME

Applicants For DO/EO/US:

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 Akihiro HORI, Masashi OZAKI, and Eiichi SAKITA

Applicants herewith submit to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. [X] This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.
2. [] This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371.
3. [] This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1).
- [X] A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.
- [X] A copy of the International Application as filed (35 U.S.C. 371(c)(2))
 - a. [] is transmitted herewith (required only if not transmitted by the International Bureau).
 - b. [X] has been transmitted by the International Bureau.
 - c. [] is not required, as the application was filed in the United States Receiving Office (RO/US).
- [X] A translation of the International Application into English (35 U.S.C. 371(c)(2)).
- [X] Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)).
 - a. [] are transmitted herewith (required only if not transmitted by the International Bureau).
 - b. [] have been transmitted by the International Bureau.
 - c. [] have not been made; however, the time limit for making such amendments has NOT expired.
 - d. [X] have not been made and will not be made.
8. [] A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. [X] An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10. [] A translation of the annexes (Amended Sheets) to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).
11. [X] An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12. [X] An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. [] A FIRST preliminary amendment.
- [] A SECOND or SUBSEQUENT preliminary amendment.
14. [] A substitute specification.
15. [] A change of power of attorney and/or address letter.
16. [X] Other items or information:
 - a. [] Verified Small Entity Statement.
 - b. [X] Translation of the Amendments to the claims of the International Application under PCT Article 34.

17. [X] The following fees are submitted:

CALCULATIONS

Basic National Fee (37 CFR 1.492(a)(1)-(5)):

Search Report has been prepared by the EPO or JPO.....\$840.00

International preliminary examination fee paid to

USPTO (37 CFR 1.482).....\$670.00

No international preliminary examination fee paid to

USPTO (37 CFR 1.482) but international search fee

paid to USPTO (37 CFR 1.445(a)(2)).....\$760.00

Neither international preliminary examination fee

(37 CFR 1.482) nor international search fee

(37 CFR 1.445(a)(2)) paid to USPTO.....\$970.00

International preliminary examination fee paid to USPTO

(37 CFR 1.482) and all claims satisfied provisions

of PCT Article 33(1)-(4).....\$ 96.00

ENTER APPROPRIATE BASIC FEE AMOUNT = \$ 840.00

Surcharge of \$130.00 for furnishing the oath or declaration later than

[] 20 [] 30 months from the earliest claimed priority date

(37 CFR 1.492(e)).

\$

Claims	Number Filed	Number Extra	Rate	
Total Claims	61 - 20=	41	X \$18.00	\$ 738.00
Independent Claims	28 - 3=	25	X \$78.00	\$1950.00
Multiple dependent claim(s) (if applicable)			+\$260.00	\$ 260.00

TOTAL OF ABOVE CALCULATIONS = \$3788.00

Reduction by 1/2 for filing by small entity, if applicable. Verified

Small Entity statement must also be filed. (Note 37 CFR 1.9, 1.27, 1.28)

\$

SUBTOTAL = \$3788.00

Processing fee of \$130.00 for furnishing the English translation later than [] 20 [] 30 months from the earliest claimed priority date

(37 CFR 1.492(f)).

\$

+

TOTAL NATIONAL FEE = \$3788.00

Fee for recording the enclosed assignment (37 CFR 1.21(h)). The

assignment must be accompanied by an appropriate cover sheet

(37 CFR 3.28, 3.31).

\$40.00 per property + \$ 40.00

TOTAL FEES ENCLOSED = \$3828.00

Amount to be

refunded \$

charged \$

a. [X] A check in the amount of **\$3828.00** to cover the above fees is enclosed.

b. [] Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed.

c. [X] The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 06-0916. A duplicate copy of this sheet is enclosed.

The Commissioner is hereby authorized to charge any other fees due under 37 C.F.R. §1.16 or §1.17 during the pendency of this application to our Deposit Account No. 06-0916.

SEND ALL CORRESPONDENCE TO:
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SPECIFICATION

AN ARTICLE DESIGN CREATING SYSTEM AND METHOD OF THE SAME
TECHNICAL FIELD

5 The present invention relates to an article design
creating system and method of the same. In particular,
it relates to a watch design creating system and method
of the same and to an article supply system based on
10 digital information processing technique in order to
directly make an article, originally designed by a
consumer himself based on his favorite design, by a clock
maker.

 In the present invention, when the consumer requests
service from the clock maker as an article supplier
15 through an information communication means, such as the
internet, magazines, etc., the clock maker sends design
information in which design specifications are recorded
through an information communication means or using a
storage medium. The consumer reads necessary data from
20 the design information and creates an original design
information (i.e., a design specification) having his
favorite design, and sends the original design
information to the clock maker by utilizing the
information communication means or by recording the
25 design information on the storage medium, for example, a
floppy disk. The clock maker produces a watch based on
the design specification from the consumer, and provides
the completed watch to the consumer.

BACKGROUND ART

30 There is a known mail-order system in which a
consumer selects his favorite article from a
predetermined catalog, and orders it through a
communication line.

 Further, there is a known TV-order system in which a
35 consumer selects his favorite article on the television
display, and orders it through a communication line.

 In these order sales system, there is a system in

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which the favorite design can be designated by the consumer from several kinds of designs of, for example, a dial-plate of the watch which was previously prepared by the clock maker. Further, there is a particular order
5 system in which designated characters can be printed either on the dial-plate or on a back lid of the watch case, if the consumer orders a large number of the watches.

However, in these order sales system, although some
10 flexibility regarding the design, such as designation of the dial-plate, printing of characters, etc., are available to the consumer, this flexibility is insufficient to give a feeling of satisfaction to the consumer, i.e., creation of an originally-designed watch,
15 of which there is only one in the world, to the consumer.

DISCLOSURE OF THE INVENTION

The object of the present invention aims to be able to produce an originally-designed and full-scale watch in which a consumer directly accesses an article supplier
20 (for example, a clock maker) through an information communication means, such as an information communication network, utilizes design software including design basic information provided by the clock maker, and executes the design of the watch on the display of a consumer's
25 personal computer.

In the first aspect of the present invention, an article design creating system is characterized by comprising: means for providing parts digital
information indicating article (for example, a watch)
30 constituent parts, which can be provided from the article supplier (for example, the clock maker) to the consumer, and the design software (or the design basic information based on the design software) to combine parts digital information on the information communication means (for
35 example, the information communication network); means for accepting an article originally-designed information created by combining the parts digital information, using

the parts digital information and design software from
the consumer to the article supplier; and means for
producing the article in the article supplier based on
the originally-designed information received from the
5 consumer.

In the second aspect of the present invention, an
article design creating method is characterized by
comprising: a process for providing parts digital
information indicating article (for example, a watch)
10 constituent parts, which can be provided from the article
supplier (for example, the clock maker) to the consumer,
and the design software (or the design basic information
based on the design software) to combine the parts
digital information on the information communication
15 means (for example, the information communication
network); a process for accepting an article originally-
designed information created by combining parts digital
information, using the parts digital information and
design software from the consumer to the article
20 supplier; and a process for producing the article in the
article supplier based on the originally-designed
information received from the consumer.

In the third aspect of the present invention, a
computer readable storage medium recording a program to
25 execute the following processes is characterized by
comprising: a process for providing parts digital
information indicating article (for example, a watch)
constituent parts, which can be provided from the article
supplier (for example, the clock maker) to the consumer,
30 and the design software (or the design basic information
based on the design software) to combine the part digital
information on the information communication means (for
example, the information communication network); a
process for accepting an article originally-designed
35 information created by combining parts digital
information, using the parts digital information and
design software from the consumer to the article

supplier; and a process for producing the article in the article supplier based on the originally-designed information received from the consumer.

5 In the fourth aspect of the present invention, a computer readable storage medium recording a program to execute the following processes is characterized by comprising: a process for providing parts digital information indicating an article (for example, a watch) constituent parts to create an article (for example, a watch) to the consumer; a process for selecting parts digital information corresponding to the consumer's desired article design from the parts digital information in the consumer's side; and a process for recording parts digital information selected by the consumer on the
10 predetermined storage medium.
15

BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 is a flowchart of basic operation according to the present invention (No. 1).

20 Figure 2 is a flowchart of basic operation according to the present invention (No. 2).

Figure 3 is a basic flowchart at a consumer's operation according to the present invention.

Figure 4 shows steps of displaying a main menu.

Figure 5 shows steps of displaying an image check.

25 Figure 6 shows steps of selecting a sample (No1).

Figure 7 shows steps of selecting a sample (No2).

Figure 8 shows steps of selecting a sample (No3).

Figure 9 shows steps of displaying a holding image.

Figure 10 shows steps of preparing an order data.

30 Figure 11 shows steps of confirming color tone.

Figure 12 is a structural view of a system according to the present invention.

Figure 13 is an explanatory view of contents of a storage medium used in the present invention.

35 Figure 14 shows a display of the main menu image.

Figure 15 shows a display of the image check.

Figure 16 shows a display of a result of the image

check.

Figure 17 shows a display of a sample selection image.

5 Figure 18 shows a display of a dial-plate when selecting the sample.

Figure 19 shows a display of a sight of dial-plates when selecting the sample.

Figure 20 shows a display of confirmation of the dial-plate when selecting the sample.

10 Figure 21 shows a display of the dial-plate when selecting the sample.

Figure 22 shows a display of a read of the dial-plate when selecting the sample.

15 Figure 23 shows a display of a time indicator.

Figure 24 shows a display of a message input image.

Figure 25 shows a display of hour and minute hands when selecting the sample.

Figure 26 shows a display of a watch case when selecting the sample.

20 Figure 27 shows a display of a wrist band made of urethane when selecting the sample.

Figure 28 shows a display of a wrist band made of leather when selecting the sample.

25 Figure 29 shows a display of a crown when selecting the sample.

Figure 30 shows a display of the holding image.

Figure 31 shows a display of a confirming image.

Figure 32 shows a display of preparing an order data.

30 Figure 33 shows a display of confirming ordered sum of money.

Figure 34 shows a display of selecting "HOLD" button.

35 Figure 35 shows a display of materials of the wrist band when selecting the sample.

Figure 36 shows a display of hands image when selecting the sample.

BEST MODE OF CARRYING OUT THE INVENTION

Before explaining the embodiments according to the present invention, definitions of terms used in the present invention will be clarified below.

5 First, the "article supplier" includes not only a single supplier, but also a plurality of article suppliers. For example, when a trading company A provides software to a consumer, and when a maker B produces an article, the trading company A and the maker
10 B correspond to the article suppliers. As another case, when the trading company A requests parts digital information to an agency company C, the agency company C is also included in the article supplier. Further, the maker B may include a plurality of makers B1, B2, B3, ...

15 Further, the "consumer" includes not only a single consumer, but also a plurality of consumers. For example, when a consumer A requests preparation of information of the article original design to an agency B, and when the consumer A orders the article based on
20 the design of the agency B, the consumer A and the agency B are included in the consumer.

Still further, the "design basic information" is the information indicating a basic combination and mutual arrangement among the parts digital information
25 determined in accordance with kinds of articles. The article supplier includes means for providing the design basic information based on the design software to the consumer. For example, in the case of the wrist watch, there is the basic information, i.e., two bands being
30 coupled to the watch case, the hour and minutes hands being arranged on the front of the dial-plate, etc. Based on the design basic information, the consumer can create the article original design information so that it is easy to create the original design information for the
35 consumer. Accordingly, it is possible to prevent an omission when selecting the article constituent parts. Further, when the article supplier prepares some custom

samples, and when constituent parts of the custom samples are changed by the consumer to his favorite parts, the creation of the original design information by the consumer becomes easy and effective.

5 Further, the "article constituent parts" are various kinds of parts constituting the article, and the parts are determined based on kinds of the articles. For example, in the case of the wrist watch, the constituent parts are indicated by a watch case, a wrist band, a
10 buckle, a dial-plate, hands, a crown, etc. The article constituent parts may be defined as either parts for determining an external appearance, or parts for determining function of the watch.

Further, regarding the "article", if it is an
15 article in which a consumer can select constituent parts of that article, it is possible to apply the present invention to any articles. For example, the following parts, i.e., accessories, such as a dress, a necktie, etc.; ornaments, such as a necklace, a finger ring, etc.;
20 a car; a motor bicycle; a furniture; etc., are included in the article. Further, it is possible to design room planning and internal ornaments in a house by the consumer as the original design. Further, it is possible to design audio equipment, such as a stereo, an
25 amplifier, etc., by the consumer, as the original design. In the embodiment, an "article" is a watch as explained below.

Further, the "information communication means" includes all current communication means to communicate
30 with the consumer, for example, an advertisement on a newspaper or magazine; an advertisement in a vehicle, such as a train, a bus, etc.; commercial scene in TV or radio broadcasting; a manual information transfer means using a mail, or a telephone; and the internet.

35 Still further, the "information communication network" includes all networks to communicate with the consumer, which is represented by the internet, a

personal computer communication, etc.

Below, embodiments of the present invention will be explained in detail with reference to the drawings.

Figure 1 is a flowchart of basic operation according to the present invention (No. 1). This embodiment is in the case that an article supplier is a clock maker. That is, a consumer creates a watch having his favorite design. As explained in detail below, the clock maker provides the design basic information to design the watch design through the information communication network, and the consumer returns the original design information of the watch through the same network.

First, the clock maker (M) as the article supplier notifies a watch design creation service to the consumer (C) through the information communication network (for example, the internet (24H service) (step S1). The consumer who received the information requests the design software and the parts digital information through the internet, an E-mail, etc. (step S2).

Further, besides parts digital information which are provided from the clock maker, there are other parts digital information which are independently created by the consumer. In this case, a digital image taken by a digital camera, a digital image scanned from a photograph, etc., are included in the parts digital information.

Next, the clock maker provides parts digital information, which can be supplied from the clock maker to the consumer, and the design software (or the design basic information based on the design software) to combine these parts to the consumer through the network (step S3). The consumer who received the design software (or the design basic information based on the design software) utilizes the design software and the parts digital information, combines the parts digital information which are independently created by the consumer, and creates the original design information as

the completed watch (step S4). At that time, the consumer selects materials of the article constituent parts, selects additional functions added to the article constituent parts, and selects functions of the article (step S4'). Further, the consumer sends the original design information to the clock maker through the network, and requests production of the watch (step S5).

Next, the clock maker produces the watch in accordance with the original data recorded in the original design information which received from the consumer (step S6). In this case, the consumer may check situation of production at the clock maker through the network (step S6'). Further, the clock maker completes the watch and provides it to the consumer (step S7). In this case, as explained in Fig. 10, when the clock maker considers situation that the color tone of the dial-plate is slightly different between the image on the display and an actual color tone of the dial-plate, the clock maker confirms the color tone of the dial-plate to the consumer, if the consumer wishes to do.

Figure 2 is a flowchart of basic operations according to the present invention (No. 2). In this embodiment, the clock maker temporarily stores the design basic information on the storage medium and provides it to the consumer. The consumer returns the original design information to the clock maker using the floppy disk (FD).

First, the clock maker (M) notifies the watch design creation service to the consumer (C) through the information communication network (for example, the internet (24H service) (step S11). The consumer who received the information requests the design software and the parts digital information through the internet, E-mail, a letter, etc. (step S12). Next, the clock maker sends the storage medium (for example, a CD-ROM) which stored parts digital information, which can supply from the clock maker, and the design software (or the design

basic information based on the design software) to combine these parts to the consumer through the network (step S13).

5 The consumer who received the CD-ROM sets it in his personal computer. The consumer combines the parts digital information which were supplied by the clock maker, and the parts digital information which were independently created by the consumer if necessary (for example, a dial-plate on which an original message is
10 written), and creates the original design information (step S14). At that time, the consumer selects materials of the article constituent parts, selects the additional functions added to the article constituent parts, and selects the functions of the article (step S14').
15 Further, the consumer sends the original design information to the clock maker through the network and requests production of the watch (step S15).

20 Next, the clock maker produces the watch in accordance with the original data recorded in the floppy disk which received from the consumer (step S16). In this case, the consumer may check situation of production at the clock maker through the internet. Further, the clock maker completes the watch and provides it to the consumer (step S17).

25 In this case, the consumer may checks current situation of production (below, production situation) at the clock maker for the ordered watch through the information communication network, for example, the internet (step S16'). Concretely, there is the following
30 method. That is, the clock maker inputs situation of production of the wrist watches, which were ordered by the consumers, for each watch in a homepage of the internet. Each user's name and telephone number are attached in the production situation data in the homepage
35 as keywords for search. Accordingly, the consumer accesses the homepage of the clock maker and can obtain the production situation data for the wrist watch which

was ordered by himself by using his own name and telephone number. In this case, the following three steps are displayed on the screen as the production situation data, i.e., (1) The order of the wrist watch was received, (2) The ordered wrist watch is in production, and (3) The ordered wrist watch was sent to you. Further, if the above step (2) is divided into a plurality of steps and displayed on the screen, the consumer can know the exact production situation.

Figure 3 is a flowchart of basic operation at the consumer who received the storage medium from the clock maker. That is, this flowchart shows concretely the step S14. The following steps are executed based on a control program (see number 1 in Fig. 13) within the CD-ROM as the storage medium provided from the clock maker. As mentioned below, the CD-ROM records the following information (see number 9 in Fig. 13), i.e., dial-plate information, hour and minute hands information, watch case information, color information, wrist band information, buckle information, time-indicator information, order information, and other information (for example, message information), as the parts design information which can be selected by the consumer.

In this case, the order information includes the information relevant to the consumer himself, such as consumer's name, residence, telephone number, etc., and the order information regarding "which watch" and "how many watches" within several wrist watches which were originally-designed and held by the following means. The recorded name and telephone number are used as an address to check production situation of the wrist watch which was ordered by the consumer.

In Fig. 3, first, an image "TOKEI KOBOU" (i.e., a watch studio(room)) is displayed on the screen (see Fig. 14), and the main menu is displayed (step S21). Next, the image check is executed (step S22). In the image check, three questions are displayed. For example,

when the question "Where do you play ?" is displayed, the consumer selects either "outdoor" or "street" (see Fig. 15).

5 Next, the consumer selects the custom sample
(step S23). That is, the consumer selects the dial-
plate, hands, the watch case, the color, etc., to create
the original watch in accordance with the following
steps. That is, the consumer designs the original watch
in the "TOKEI KOBOU" (see Figs. 16 to 29). Next, the
10 watch created on the custom image is held (step S24). A
maximum of three watches can be held in this embodiment
(see Fig. 30). Conservation of the image is executed by
clicking "HOLD". Further, an order data preparing image
is displayed on the screen (Figs. 32 and 33).

15 Figure 4 shows concrete steps of the main menu
display in step S21 (see Fig. 14).

First, as the main menu, "EXPLANATION", "READ",
"IMAGE CHECK", "DESIGN", "HOLD IMAGE" and "END" are
displayed (step S31). Next, when "EXPLANATION" is
20 clicked, the image is moved to the abstract of the
present invention (step S33). Next, when "READ" is
clicked, order data created by the consumer are read and
the image is moved to the custom display (step S34).
Next, "IMAGE CHECK" is clicked, the image is moved to the
25 display of the image check (see Fig. 15 and step S35).
Next, "DESIGN" is clicked, the image is moved to the
display of the custom sample pattern representing the
sample pattern (see Fig. 17 and step S36). Next, "HOLD
IMAGE" is clicked, the image is moved to the display of
30 the holding image (see Fig. 30 and step S37). Next,
"END" is clicked, the current program is finished
(step S38).

Figure 5 shows concrete steps of the image check in
step S22 shown in Fig. 3.

35 First, three questions are displayed in order to
execute the image check. When all questions are
answered, the result of the image check is displayed (see

Fig. 16 and step S41). Next, the menu of "HOLD",
"DESIGN" and "RETRY" are displayed, and, for example, the
image of five watches is displayed (step S42). Next,
when the image of an optional watch is clicked, and when
5 "DESIGN" is clicked, the image is moved to the display of
the custom selection (see Fig. 18 and step S43). Next,
when the image of the optional watch is clicked, and when
"IMAGE" is clicked, the image is moved to the holding
image (see Fig. 30 and step S44). Next, when "RETRY" is
10 clicked, the image is returned to the display of the
image check, and the image check is retried (step S45).

Figure 6 shows concrete steps of selection of the
custom sample in step S23 shown in Fig. 3 (No. 1).

First, before sampling, five sample patterns of
15 watches are displayed as the large group (see Fig. 17 and
step S51). Next, when the image of the desired watch is
clicked, and when "DESIGN" is clicked, the image is moved
to the display of the custom selection (see Fig. 18 and
step S52). Next, as shown in Fig. 18, as the small
20 group, indication marks, such as, "WHOLE OF IMAGE",
"DIAL-PLATE", "HANDS", "WATCH CASE", "BAND/BUCKLE",
"CROWN", etc., are displayed. Further, "TIME INDICATOR",
"ILLUSTRATION/CHARACTERS", "MESSAGE", "MAGNIFYING GLASS",
etc., are displayed. Further, the sample of the
25 constituent parts selected using the indication mark is
displayed (step S53). Further, one of categories is
selected from "CHRISTMAS", "GIFT", "GENERAL", etc., and
the image is moved to the display (Fig. 19) in order to
display a list of dial-plates sorted so as to fit his
30 purpose (step S54).

Next, as shown in Fig. 18, when "DIAL-PLATE" was
selected as the part, and when the desired dial-plate was
selected from six samples of the sample dial-plate, the
dial-plate in the whole of the image of the watch is
35 replaced by the selected dial-plate. Similarly, other
parts, such as the watch case, the band, etc., are
selected by the indication mark so that the parts are

displayed on the sample display section. As a result, these parts are replaced to the whole of the image of the watch so that it is possible to design the desired watch. Further, it is possible to revise each part, such as dial-plate, etc., any number of times, by confirming the whole of design coordinate. Further, it is possible to see the original design (step S55).

In this case, the "original design" means the parts digital information which are designed by the consumer himself. As the parts digital information, there are computer graphics created by the consumer, digital image taken by a digital camera by the consumer, and another digital image scanned by a scanner from an illustration which was drawn by the consumer, or a picture which was taken by the consumer. The clock maker arranges the original design to the surface of the dial-plate (i.e., time indicating side), bonds the printed original design to the surface, and provides the dial-plate as the original created by the customer himself and as the only one of its type in the world.

Next, the message is input to the selected dial-plate (step S56). The consumer can input optional words or sentences as the message. As shown in Fig. 21, for example, "Happy Birthday" can be input as the message. In this embodiment, it is possible to optionally arrange the message to four locations as shown in the drawing. In four locations, the customer can select the message to either any one favorite location or all locations. In this case, the number of messages is optional in four locations. Further, although the length of the message may be limited in accordance with the space, it is possible to optionally set the length to a predetermined extent. Further, it is possible to optionally use a font and color of characters in the predetermined extent.

Next, when "MAGNIFYING GLASS" is clicked, the image of the dial-plate is enlarged (see Fig. 21 and step S57). In the case of Fig. 21, "ILLUSTRATION/CHAR ACTERS" is

shown instead of "MESSAGE". Finally, "HOLD" is clicked, the image is moved to the holding of the image (Fig. 30) to hold the custom watch which is currently created (step S58). Further, "READ" is clicked, the dial-plate
5 created by the consumer is read out from the file, and it is displayed on a vacant space within six spaces (see Fig. 25).

Figure 7 shows concrete steps of selection of the custom sample in step S23 shown in Fig. 3 (No. 2).
10 First, a list of dial-plates is displayed (step S61). In this case, it is possible to display twenty-four dial-plates, at a maximum, within one screen. The consumer selects one favorite dial-plate from twenty-four dial-plates, and the selected dial-plate is enlarged (see
15 Fig. 20). When "CONFIRM" is clicked on the enlarged image, the image is returned to Fig. 18, the dial-plate is displayed on six spaces. Further, a title and a name of artist are displayed on the enlarged window.

Next, the window for confirming the dial-plate is
20 displayed (see Fig. 20 and step S62). Further, "CONFIRM", "CANCEL", "HOLD" and "RETURN" are displayed (step S63). When "CONFIRM" is clicked, Figure 18 is displayed and the selected dial-plate is displayed on the vacant space. When "CANCEL" is clicked, the confirmation
25 window is closed (step S65), and Figure 19 is displayed.

Figure 8 shows concrete steps of selection of the custom sample in step S23 shown in Fig. 3 (No. 3). First, when the illustration/characters, (for example, "Happy Birthday") is input (step S71). Next, when
30 "MAGNIFYING GLASS" is clicked, the case, the time indicator, hands, the dial-plate, the crown, the message, etc., are enlarged and displayed (step S72). Next, an image file of the created dial-plate is read (step S74).

Next, when "READ" is clicked, a file dialog window
35 is displayed and the image file of the dial-plate is opened (step S75). The image is displayed on the right eight spaces. In this case, the flowchart for design

samples besides dial-plate, time indicator, hands, watch case, band, crown, etc., are omitted and only the explanation is given on the display below.

5 First, selection of dial characters is explained in Fig. 23. First, "TIME INDICATOR" is clicked, and changeable time indicators are displayed. When a bar, a dot, an alphabet, etc., is clicked, twelve time indicators which are indicated by different colors are displayed on the screen, and one of time indicators is selected. Then, the image is changed to the selected time indicator. Further, "HOLD" is clicked, the image is moved to the holding image of the custom watch which is created currently.

15 Next, the input of the message is explained below (see Fig. 24). First, a favorite font (for example, Gothic font, Ming font, etc.,) is selected from different fonts. The color of character is selected from ten colors displayed on the right side. When "HANDS" is clicked, one hand is selected from five kinds of hands. 20 When "HOLD" is clicked, the image is moved to the holding image. Next, the case is selected as shown in Fig. 26. When "WATCH CASE" is clicked, changeable watch cases are displayed, and the desired watch case is selected therefrom. When the desired watch case is selected, the color of the watch case of the watch is changed. When 25 "HOLD" is clicked. the image is moved to the holding image.

30 As shown in Figs. 27, 28 and 29, the band, the buckle, the crown, etc., are selected based on the steps similar to the above.

In this case, as shown in step S4' in Fig. 1 and in step S14' in Fig. 2, for example, it is possible to select the constituent material of the watch case when selecting the watch case. That is, it is possible to 35 select either the watch case made of resin, such as plastics, or the watch case made of metal.

Further, as shown in Fig. 35, it is possible to

select the constituent material of the watch band when selecting the watch band. That is, it is possible to select the watch band having favorite material from the group of band made of urethane foam, leather, or metal.

5 The metal band is selected in Fig. 35. When "BAND/BUCKLE", which is indicated to the left side of the display, is selected, "METAL" is selected on the right upper side. In Fig. 35, two kinds of metal bands are shown in different colors.

10 Further, when the watch case or watch band is selected, it is possible to read the original design (i.e., parts digital information) created by the consumer himself. The clock maker arranges the original design to, for example, the front surface of the band, and
15 provides it to the customer as the customer's originally-designed band and as the only one of its kind in the world. When the material of the band is made of resin, such as urethane foam, an original design is printed. The watch case is also printed.

20 As shown in Fig. 36, it is possible to select whether the function to light up the hands as additional function is added or not. That is, the light-up function is desired, it is possible to select the hands having luminous material, for example, fluorescent material or
25 noctilucent coating. The noctilucent material is provided to, for example, a tip of the hand as shown in the right upper portion of the drawing.

Further, for example, several kinds of modules are provided to drive the hands, and it may be possible to
30 optionally select the favorite hands, by the consumer. As a result, the consumer can select the counting function which is one of functions provided in the article. Further, it is possible to select a module for measuring external environment, for example, a module
35 having the pressure measuring function by a pressure sensor, and a module having the temperature measuring function by a temperature sensor.

Figure 9 shows concrete steps of display of the holding image in step S24 shown in Fig. 3. First, as shown in Fig. 30, the holding image is displayed, and "ORDER", "HOLD", "CHANGE OF DESIGN", "DELETE", etc., are displayed (step S81). Any one of watches is selected when the customer orders next, and "ORDER" is clicked (see Fig. 31, step S82). Further, when the image is held, any one of watch is selected and "HOLD" is clicked (see Fig. 31 and step S83). Next, when the design is changed after selection of optional watch, "CHANGE" is clicked (step S84). Further, the image is moved to the custom image so as to change the design coordinate. When "DELETE" is clicked, the selected watch is erased. As shown in Fig. 31, the final confirmation image is displayed in order to confirm the ordered watch (step S85). Further, "CONFIRM" is clicked (step S86), and the display is moved to Figure 32. When "CANCEL" is clicked, the display is moved to three holding image (see Fig. 30).

Figure 10 is a flowchart for confirming color tone. First, the clock maker asks the consumer whether confirmation of color tone is necessary or not (see Figs. 30 and 33). The consumer requests the confirmation of the color tone from the clock maker (step S92). The clock maker prints some samples which some sample colors are combined with peripheral color tones in accordance with the request, and sends them to the consumer (step S93).

The consumer selects either the sample color or a color close thereto in accordance with the sample information, and returns them to the clock maker (step S94). The clock maker produces the dial-plate based on the color selected by the consumer in accordance with the answer of the consumer (step S95).

Figure 11 shows concrete steps of preparation of order data in step S25 shown in Fig. 3. First, the consumer prepares the order data (step S101). Next, the

order information is input to a predetermined vacant column on the display (step S102). Next, "CONFIRM SUM OF MONEY" is clicked (step S103), Figure 33 is displayed. Further, "PREPARE ORDER" is clicked, and the order
5 information is recorded on a harddisk or a floppy disk (step S104). In this case, Figure 34 is in the case that three watches were already held and the fourth watch is added. When the fourth watch is held, the watch which was already held is replaced to the fourth watch.

10 Figure 12 is a structural view of a system according to the present invention. The internet is utilized as the information communication network. In subscribers (1 to N) as consumers, for example, when the consumer 1 accesses a host computer H provided in the clock maker
15 which is an article supplier through the internet, a CD-ROM is provided from the clock maker to the consumer 1. The consumer 1 creates the original design watch in accordance with the above-mentioned steps, records the originally-design watch into the floppy disk (FD) and
20 sends it to the clock maker. The clock maker produces the original watch and sends the finished watch to the consumer. In the drawing, ME represents an internal memory provided in the host computer, but it may be possible to utilize an external memory. A control
25 program is stored in the memory.

In Fig. 12, as shown by dotted line, the clock maker can provide the design software (or the design basic information based on the design software) having the same contents as the CD-ROM instead of the CD-ROM by utilizing
30 the internet, or another way, to the consumer. Further, it is possible to send the original design information from the consumer to the clock maker by utilizing the internet without use of the floppy disk.

35 Figure 13 is an explanatory view for explaining contents of storage medium used in the present invention. The storage medium is provided from the clock to the consumer, and the CD-ROM shown in Fig. 12 corresponds to

this drawing. The reference number 2 represents parts digital information. As the parts digital information, the dial-plate information, the pointers information, the watch case information, the color information, the wrist band information, the buckle information, the time indicator information, the order information, the message information, etc., are recorded in the CD-ROM. The reference number 1 represents another control program necessary for parts selection.

Concretely, this storage medium stores a program to execute the following processes to the computer, i.e., a process for providing parts digital information indicating watch constituent parts; a process for selecting parts digital information corresponding to the watch design desired by the consumer from the parts digital information; and a process for recording parts digital information selected by the consumer to the predetermined storage medium. Further, the storage medium stores an order information to order from the consumer.

CAPABILITY OF UTILIZATION IN INDUSTRY

As explained above, according to the present invention, an article design, for example, in the watch design creation, the consumer can create the specification of his own original watch by communicating with a substitute of the clock maker, i.e., parts design information and design software. Further, by communicating between the clock maker and the consumer through the predetermined information communication means, it is possible to perfectly reflect the constituent parts (for example, the dial-plate) originally designed by the consumer on the watch. Further, in the present invention, by displaying a plurality of completed wrist watches on the same screen, the consumer can easily compare a plurality of wrist watches created by the consumer himself, and can evaluates them. Accordingly, if evaluation by himself is

low, the consumer again creates the watch.

Still further, if the consumer requests, he can check situation of creation of the article so that the consumer can wait for delivery of the watch without any problems. Accordingly, it is possible to establish an order-sale system in which the consumer can order without any problems. Therefore, it is possible to realize large capability of utilization in industry.

CLAIMS

1. An article design creating system comprising:
means for providing parts digital information indicating article constituent parts which can be provided from an article supplier to a consumer and design software for combining the parts digital information through information communication means;

means for receiving article original design information which was created by the consumer by combining the parts digital information, using the design software and the parts digital information which were provided from the consumer to the article supplier; and

means for producing an article based on the original design information provided from the consumer to the article supplier.

2. (DELETED)

3. An article design creating method comprising:
a process for providing parts digital information indicating article constituent parts which can be provided from an article supplier to a consumer, and design software for combining the parts digital information through information communication means;

a process for receiving article original design information which was created by the consumer by combining the parts digital information, using the design software and the part digital information which were provided from the consumer to the article supplier; and

a process for producing an article based on the original design information provided from the consumer to the article supplier.

4. (DELETED)

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5. (DELETED)
6. (DELETED)
7. (DELETED)
8. (DELETED)
9. (DELETED)

10. (AMENDED) An article design creating method as claimed in claim 3, further comprising a process for checking situation of production of the article which was ordered by the consumer through the information communication network.

11. (AMENDED) An article design creating method as claimed in claim 3, further comprising a process for acquiring situation of production of the article stored in the computer at the article supplier by executing access to the computer by the consumer.

12. (DELETED)

13. (DELETED)

14. A computer readable storage medium storing a program to execute the following processes which include:

a process for providing parts digital information which indicates an article constituent parts for creating article design to the consumer;

a process for selecting the parts digital information which corresponds to the article design desired by the consumer from the parts digital information provided by the consumer; and

a process for recording the parts digital information selected by the consumer on a predetermined storage medium.

15. (DELETED)

16. A watch design creating system comprising:

means for sending creation service for watch design information from a clock maker to a consumer through an information communication means;

means for receiving design software for the watch design and parts digital information indicating watch constituent parts, these being requested from the consumer to the clock maker through a predetermined

communication means;

means for providing parts digital information which can be provided from the clock maker to the consumer and design software for combining the parts digital information through the information communication means;

means for receiving watch original design information which was created by the consumer by combining the parts digital information, using the design software and the part digital information which were provided from the consumer to the watch maker;

means for accepting production of the watch requested from the consumer to the clock maker, based on the original design information created by the consumer; and

means for producing the watch based on the original design information provided from the consumer to the clock maker, and providing a completed watch to the consumer.

17. (DELETED)

18. A watch design creating system comprising:

means for sending creation service for watch design information from a clock maker to a consumer through an information communication means;

means for receiving design software for the watch design and parts digital information indicating watch constituent parts, these being requested from the consumer to the clock maker through a predetermined communication means;

means for providing a storage medium storing parts digital information which can be provided from the clock maker to the consumer, and design software for combining the parts digital information;

means for receiving watch original design

information which was created by the consumer by setting the storage medium into his own personal computer and by combining the parts digital information, using the design software stored on the storage medium and the part digital information which were independently created by the consumer himselef;

means for accepting production of the watch requested from the consumer to the clock maker, by recording the original design information created by the consumer into the storage medium and by sending the storage medium; and

means for producing the watch based on the original design information which was recorded on the predetermined storage medium sent from the consumer to the clock maker, and providing a completed watch to the consumer.

19. (DELETED)

20. (DELETED)

21. (DELETED)

22. A watch design creating method comprising:

a process for sending creation service for watch design information from a clock maker to a consumer through an information communication means;

a process for receiving design software for the watch design and parts digital information indicating watch constituent parts, these being requested from the consumer to the clock maker through a predetermined communication means;

a process for providing the parts digital

information which can be provided from the clock maker to the consumer, and design software for combining the parts digital information through the information communication means;

a process for receiving watch original design information which was created by the consumer by combining the parts digital information, using the design software and the part digital information;

a process for accepting production of the watch requested from the consumer to the clock maker, based on the original design information created by the consumer; and

a process for producing the watch based on the original design information which was received from the consumer, and providing a completed watch to the consumer.

23. (DELETED)

24. A watch design creating method comprising:

a process for sending creation service for watch design information from a clock maker to a consumer through an information communication means;

a process for receiving design software for the watch design and parts digital information indicating watch constituent parts, these being requested from the consumer to the clock maker through a predetermined communication means;

a process for providing a storage medium storing parts digital information which can be provided from the clock maker to the consumer, and design software for combining the parts digital information through the information communication means;

a process for receiving watch original design information which was created by the consumer by setting the storage medium into his own personal computer

and by combining the parts digital information, using the design software stored in the storage medium and the part digital information which were independently created by the consumer himself;

a process for accepting production of the watch requested from the consumer to the clock maker, by recording the original design information created by the consumer into the storage medium and by sending the storage medium; and

a process for producing the watch based on the original design information which was recorded into the predetermined storage medium sent from the consumer to the clock maker, and providing a completed watch to the consumer.

25. (DELETED)

26. (DELETED)

27. (DELETED)

28. (DELETED)

29. (DELETED)

30. A watch design creating method as claimed in claim 22 or 24, further comprising a process for confirming color tone designated by the consumer and actual color tone in the completed watch in accordance with confirmation request from the consumer.

31. A watch design creating method as claimed in claim 22 or 24, further comprising a process for displaying in layers, a completed figure, pattern groups of watch constituent parts, and designation of parts, on the screen when creating the original design information by the consumer.

32. A watch design creating method as claimed in claim 31, wherein the watch constituent parts are sequentially and selectively displayed on the screen from large group to small group when the consumer creates the original design information.

33. A watch design creating method as claimed in claim 31, wherein an enlarged view of the completed watch is displayed on the screen when the consumer creates the original design information.

34. A watch design creating method as claimed in claim 30, wherein the clock maker receives the colors designated by the consumer, prints a plurality of colors close to the designated colors at the same time, and provides printed documents for confirmation to the consumer.

35. A watch design creating method as claimed in claim 31, wherein a plurality of completed watches are displayed on the same screen to be compared with one another when the consumer creates the original design information.

36. A watch design creating method as claimed in claim 22 or 24, wherein at least one message is input to a dial-plate on the screen through a keyboard when the consumer creates the original design information.

37. A watch design creating method as claimed in claim 36, wherein, location, number, length, font and

color, of the message are designated on the dial-plate on the screen when the consumer creates the original design information.

38. A watch design creating method as claimed in claim 22 or 24, wherein a plurality of sample patterns are displayed on the same display when the consumer creates the original design information.

39. (DELETED)

40. (DELETED)

a process for selecting the parts digital information which corresponds to the watch design desired by the consumer from the parts digital information provided by the consumer; and

a process for recording the parts digital information selected by the consumer onto a predetermined storage medium.

43. A computer readable storage medium as claimed in claim 42, wherein, at least, dial-plate information, hands information, watch case information, color information, watch band information, buckle information, time indicator information, and message information, are recorded as the parts digital information.

44. (DELETED)

45. (ADDED) An article design creating system for creating article design original information by combining parts digital information, using parts design information indicating article constituent parts and design software to combine the parts design information, characterized in that a message independently created by a consumer is added to one of article constituent parts in the parts digital information.

46. (ADDED) An article design creating system for creating article design original information by combining parts digital information, using parts design information indicating article constituent parts and design software to combine the parts design information, characterized in that parts digital information independently created by a consumer is added to one of article constituent parts in the parts digital information.

47. (ADDED) An article design creating system for creating article design original information by combining parts digital information, using parts design information indicating article constituent parts and design software to combine the parts design information, characterized in that materials of article constituent parts in the parts digital information are selected by a consumer.

48. (ADDED) An article design creating system for creating article design original information by combining parts digital information, using parts design information indicating article constituent parts and design software to combine the parts design information, characterized in that mechanical functions of article constituent parts in the parts digital information are selected by a consumer.

49. (ADDED) An article design creating system as claimed in any one of claims 45 to 48, wherein the design software includes design basic information.

50. (ADDED) An article design creating method for creating article design original information by combining parts digital information, using parts design information indicating article constituent parts and design software to

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combine the parts design information, characterized in that a message independently created by a consumer is added to one of article constituent parts in the parts digital information.

51. (ADDED) An article design creating method for creating article design original information by combining parts digital information, using parts design information indicating article constituent parts and design software to combine the parts design information, characterized in that parts digital information independently created by a consumer is added to one of article constituent parts in the parts digital information.

52. (ADDED) An article design creating method for creating article design original information by combining parts digital information, using parts design information indicating article constituent parts and design software to combine the parts design information, characterized in that materials of article constituent parts in the parts digital information are selected by a consumer.

53. (ADDED) An article design creating method for creating article design original information by combining parts digital information, using parts design information indicating article constituent parts and design software to combine the parts design information, characterized in that mechanical functions of article constituent parts in the parts digital information are selected by a consumer.

54. (ADDED) An article design creating method as claimed in any one of claims 50 to 53, wherein the design software includes design basic information.

55. (ADDED) A computer readable storage medium storing a program to execute the following processes which include:

a process for providing parts digital information which indicates article constituent parts for creating article design to a consumer; and

a process for selecting the parts digital information which corresponds to the article design desired by the consumer from the parts digital information provided by the

consumer, and for adding a message independently created by the consumer to one of article constituent parts in the parts digital information.

56. (ADDED) A computer readable storage medium storing a program to execute the following processes which include:

a process for providing parts digital information which indicates article constituent parts for creating article design to a consumer; and

a process for selecting the parts digital information which corresponds to the article design desired by the consumer from the parts digital information provided by the consumer, and for adding parts digital information independently created by the consumer to one of the article constituent parts in the parts digital information.

57. (ADDED) A computer readable storage medium storing a program to execute the following processes which include:

a process for providing parts digital information which indicates article constituent parts for creating article design to a consumer; and

a process for selecting the parts digital information which corresponds to the article design desired by the consumer from the parts digital information provided by the consumer, and for selecting materials of article constituent parts in the parts digital information by the consumer.

58. (ADDED) A computer readable storage medium storing a program to execute the following processes which include:

a process for providing parts digital information which indicates article constituent parts for creating article design to a consumer; and

a process for selecting the parts digital information which corresponds to the article design desired by the consumer from the parts digital information provided by the consumer, and for selecting mechanical functions of article constituent parts in the parts digital information by the consumer.

59. (ADDED) A computer readable storage medium storing a program to execute the following processes which include:

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a process for providing parts digital information which indicates watch constituent parts for creating watch design to a consumer; and

a process for selecting the parts digital information which corresponds to the watch design desired by the consumer from the parts digital information provided by the consumer, and for adding a message independently created by the consumer to one of watch constituent parts in the parts digital information.

60. (ADDED) A computer readable storage medium storing a program to execute the following processes which include:

a process for providing parts digital information which indicates watch constituent parts for creating watch design to a consumer; and

a process for selecting the parts digital information which corresponds to the watch design desired by the consumer from the parts digital information provided by the consumer, and for adding parts digital information independently created by the consumer to one of watch constituent parts in the parts digital information.

61. (ADDED) A computer readable storage medium storing a program to execute the following processes which include:

a process for providing parts digital information which indicates watch constituent parts for creating watch design to a consumer; and

a process for selecting the parts digital information which corresponds to the watch design desired by the consumer from the parts digital information provided by the consumer, and for selecting materials of watch constituent parts in the parts digital information by the consumer.

62. (ADDED) A computer readable storage medium storing a program to execute the following processes which include:

a process for providing parts digital information which indicates watch constituent parts for creating watch design to a consumer; and

a process for selecting the parts digital information which corresponds to the watch design desired by the consumer

from the parts digital information provided by the consumer, and for selecting mechanical functions of watch constituent parts in the parts digital information by the consumer.

63. A computer readable storage medium as claimed in any one of claims 59 to 62, wherein, at least, dial-plate information, hands information, watch case information, color information, watch band information, buckle information, time indicator information, and message information, are recorded as the parts digital information.

64. (ADDED) An article design creating system comprising the following processes executed in a computer, which include:

a process for providing parts digital information which indicates article constituent parts for creating article design to a consumer; and

a process for selecting the parts digital information which corresponds to the article design desired by the consumer from the parts digital information provided by the consumer, and for adding a message independently created by the consumer to one of article constituent parts in the parts digital information.

65. (ADDED) An article design creating system comprising the following processes executed in a computer, which include:

a process for providing parts digital information which indicates article constituent parts for creating article design to a consumer; and

a process for selecting the parts digital information which corresponds to the article design desired by the consumer from the parts digital information provided by the consumer, and for adding parts digital information independently created by the consumer to one of article constituent parts in the parts digital information.

66. (ADDED) An article design creating system comprising the following processes executed in a computer, which include:

a process for providing parts digital information which indicates article constituent parts for creating article design to a consumer; and

a process for selecting the parts digital information which corresponds to the article design desired by the consumer from the parts digital information provided by the consumer, and for selecting materials of article constituent parts in the parts digital information by the consumer.

67. (ADDED) An article design creating system comprising the following processes executed in a computer, which include:

a process for providing parts digital information which indicates article constituent parts for creating article design to a consumer; and

a process for selecting the parts digital information which corresponds to the article design desired by the consumer from the parts digital information provided by the consumer, and for selecting mechanical functions of article constituent parts in the parts digital information by the consumer.

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562040 23048260

ABSTRACT

5 The present invention relates to an article design
creating system. An article supplier (for example, a
clock maker) provides parts digital information
10 indicating article (for example, a watch) constituent
parts of which can be provided from the article supplier
to a consumer, and design software for combining the
parts digital information or design basic information
15 based on design software, through, for example,
information communication network. The article supplier
accepts article original design information created by
the consumer by using the parts digital information and
the design software and by combining the parts digital
20 information. The article supplier produces the article
based on the original design information sent from the
consumer and provides completed article to the consumer.

Fig. 1

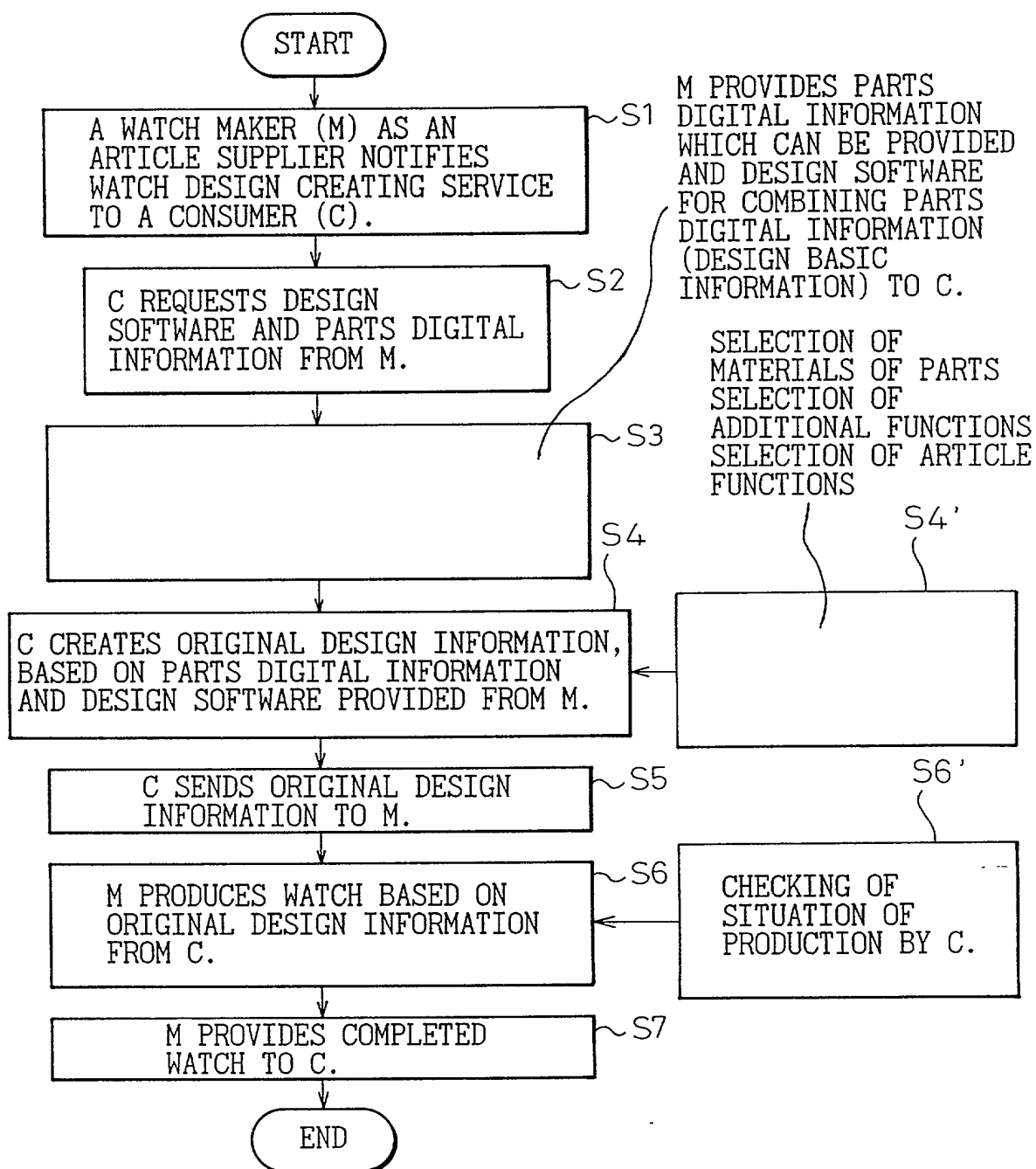


Fig.2

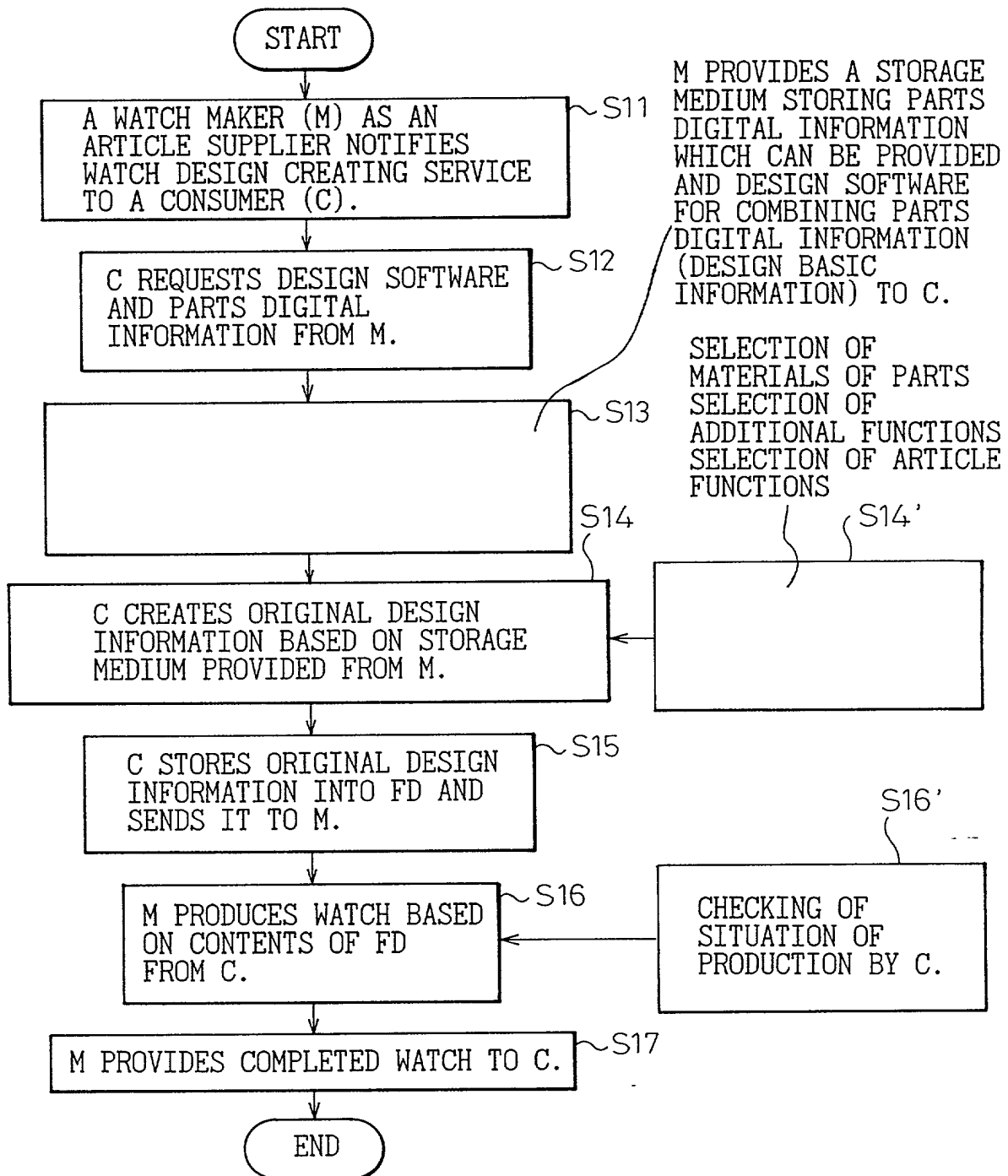


Fig.3

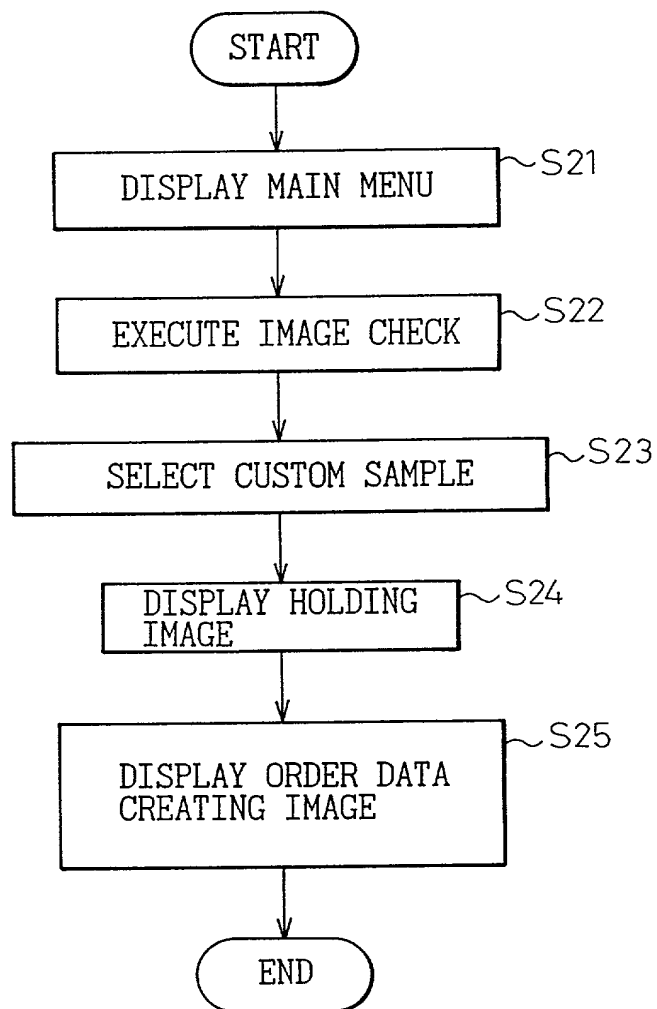


Fig.4

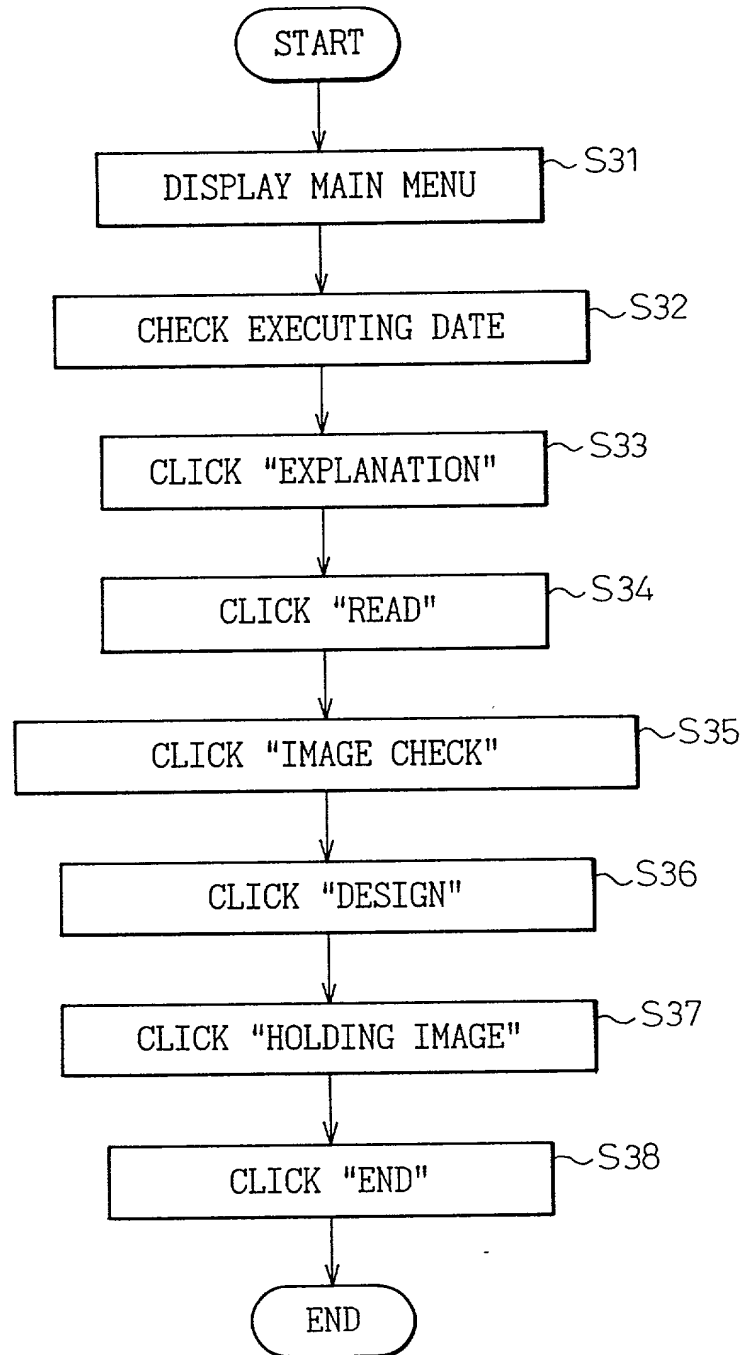


Fig. 5

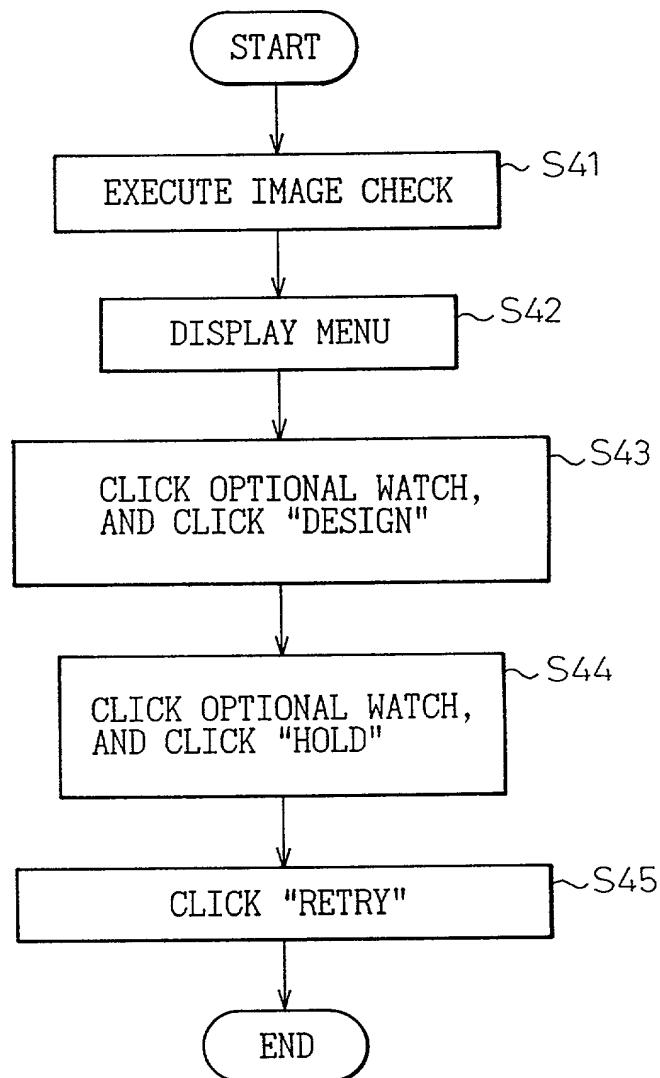


Fig.6

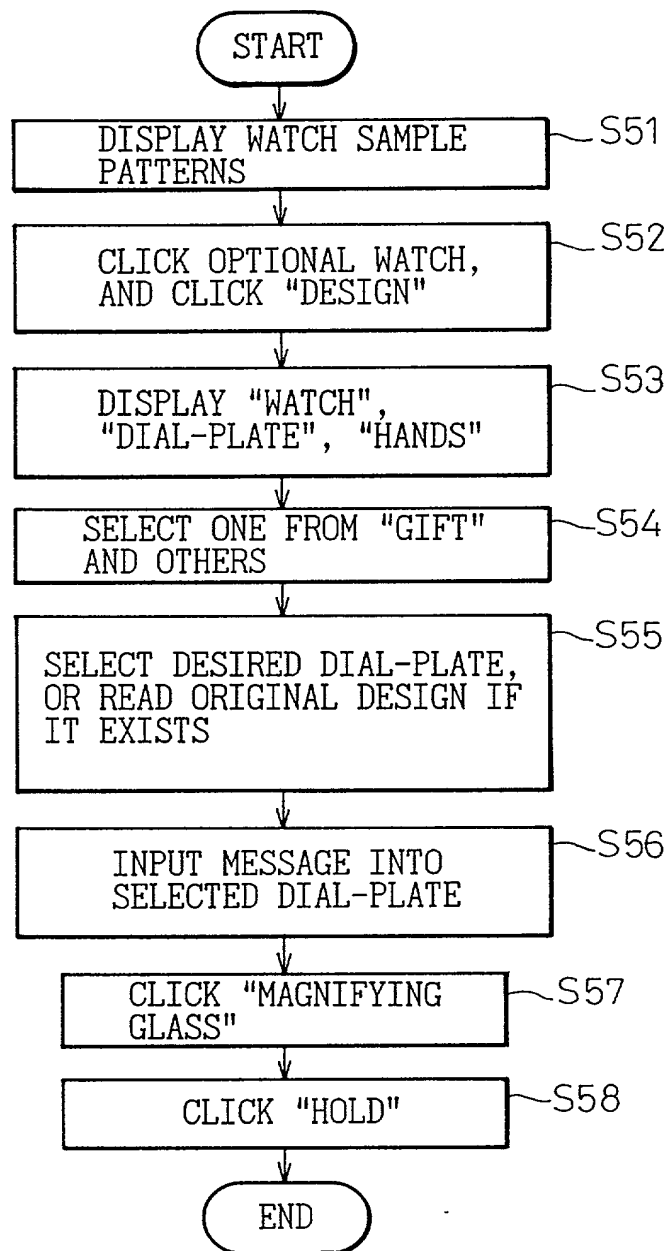


Fig.7

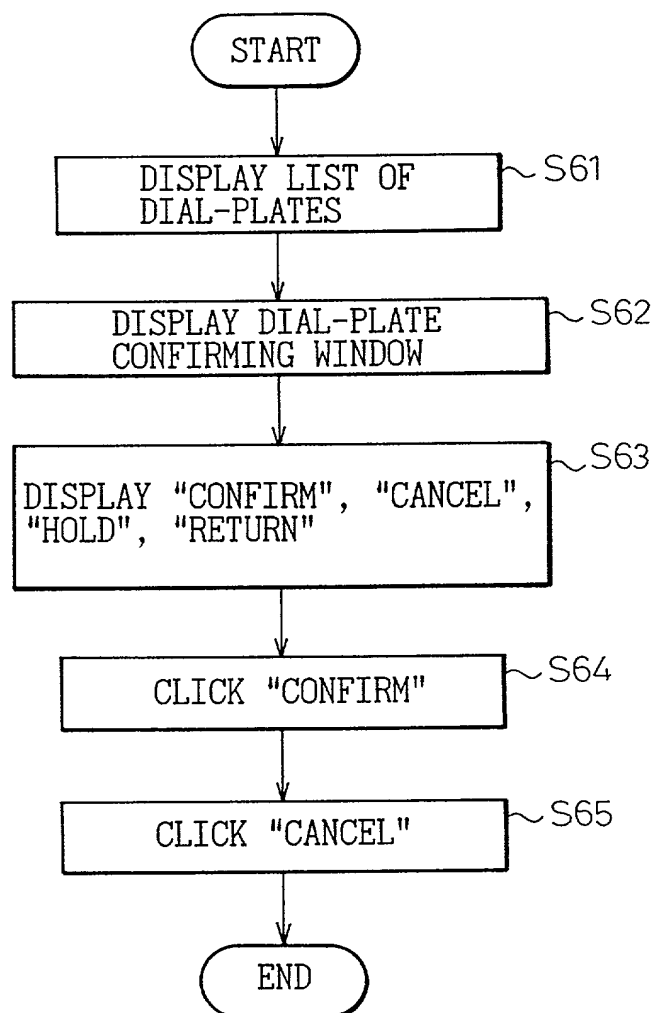


Fig. 8

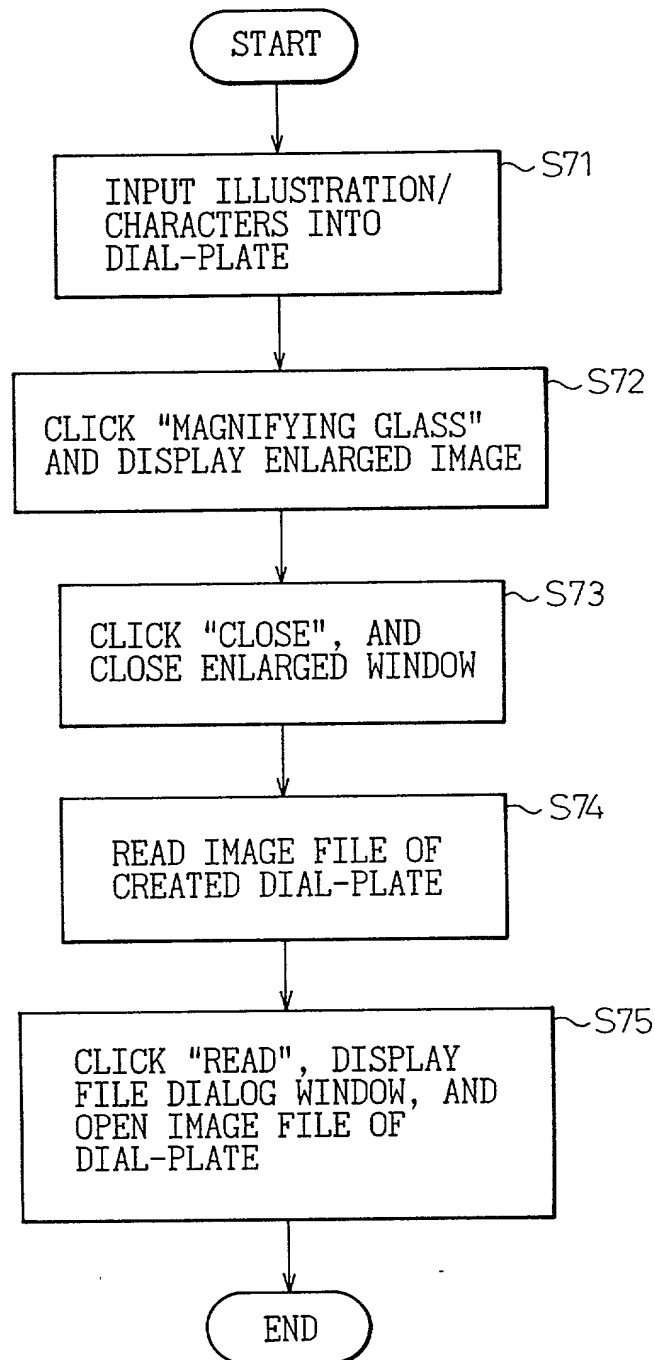


Fig.9

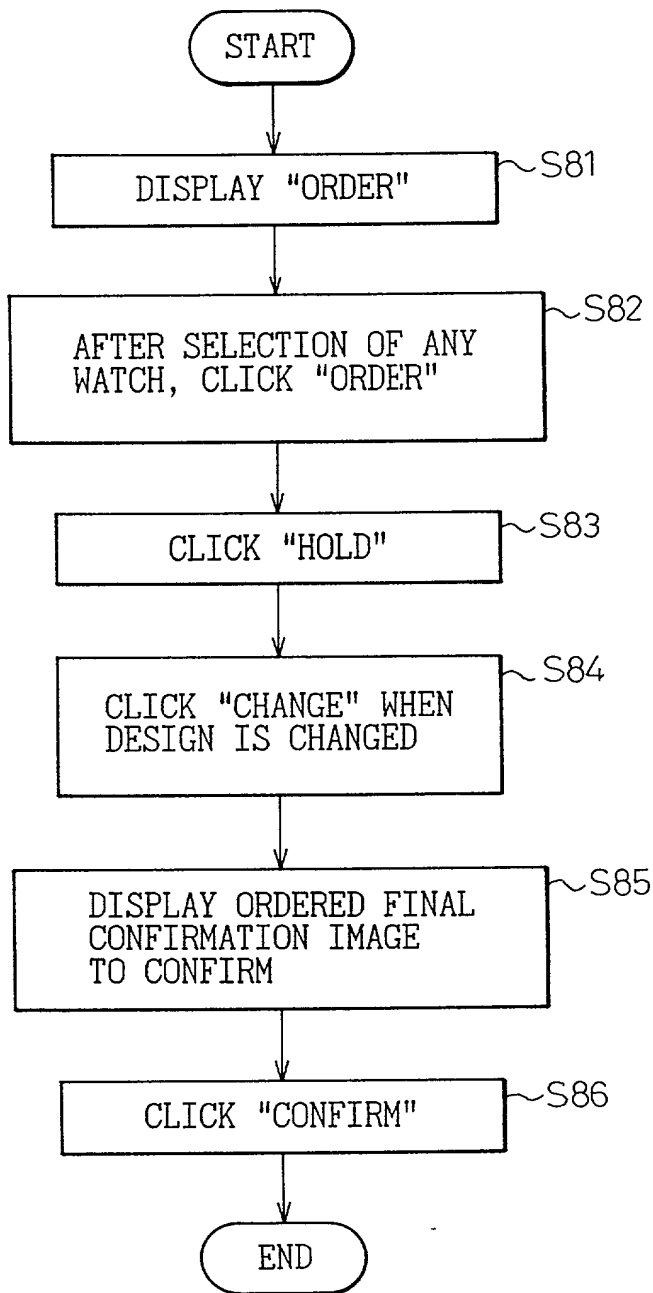


Fig.10

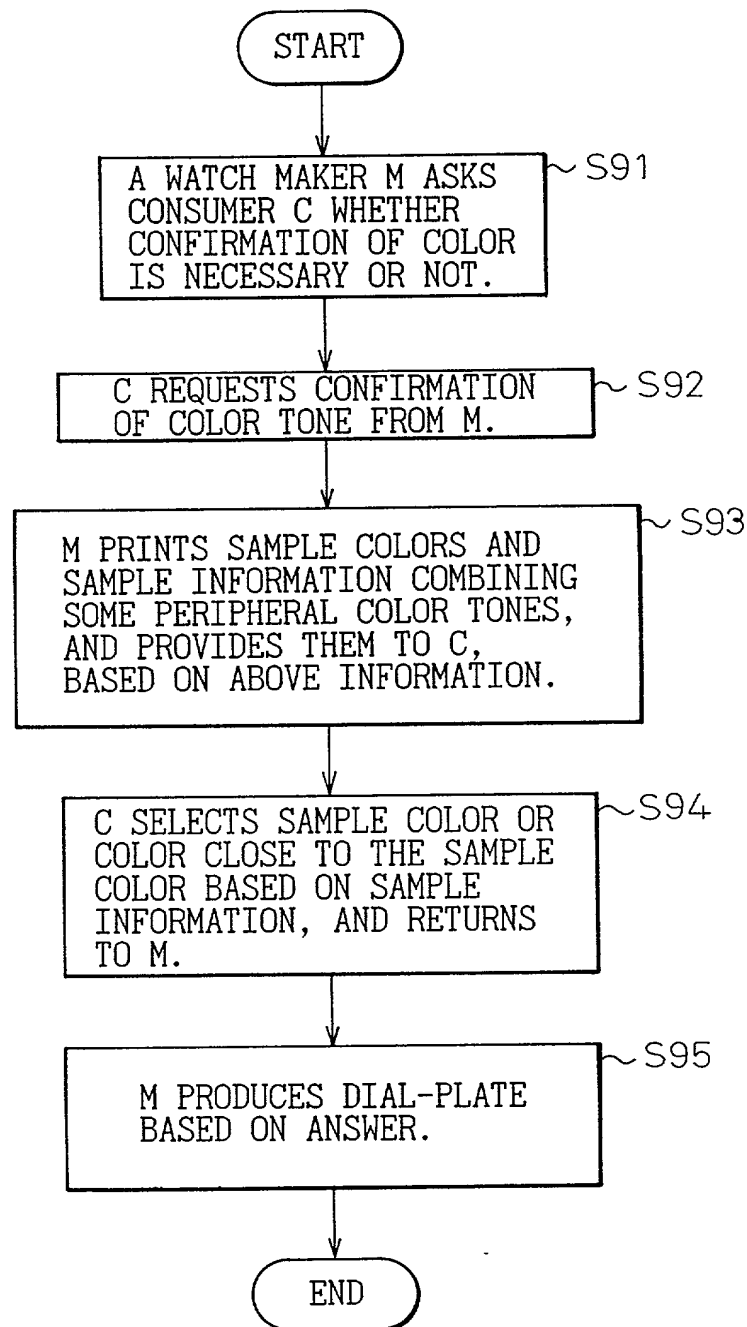


Fig.11

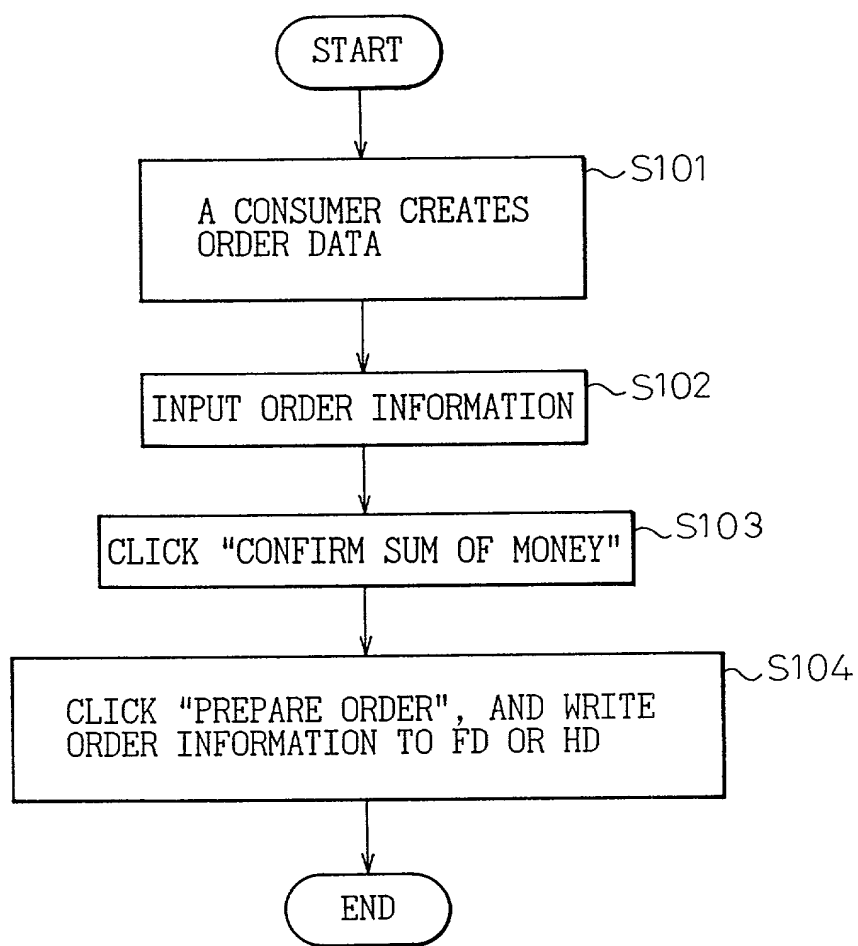


Fig.12

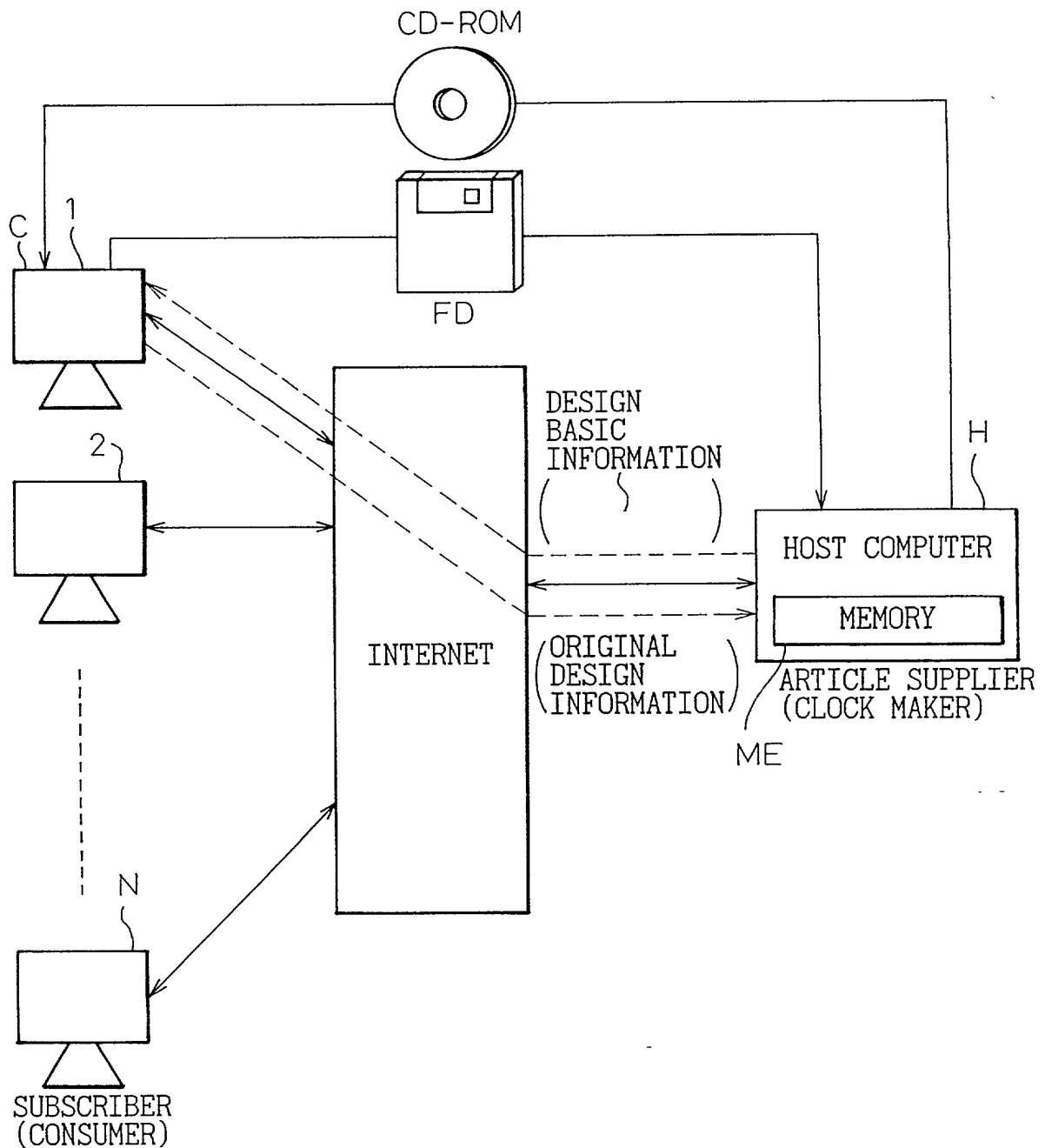


Fig.13

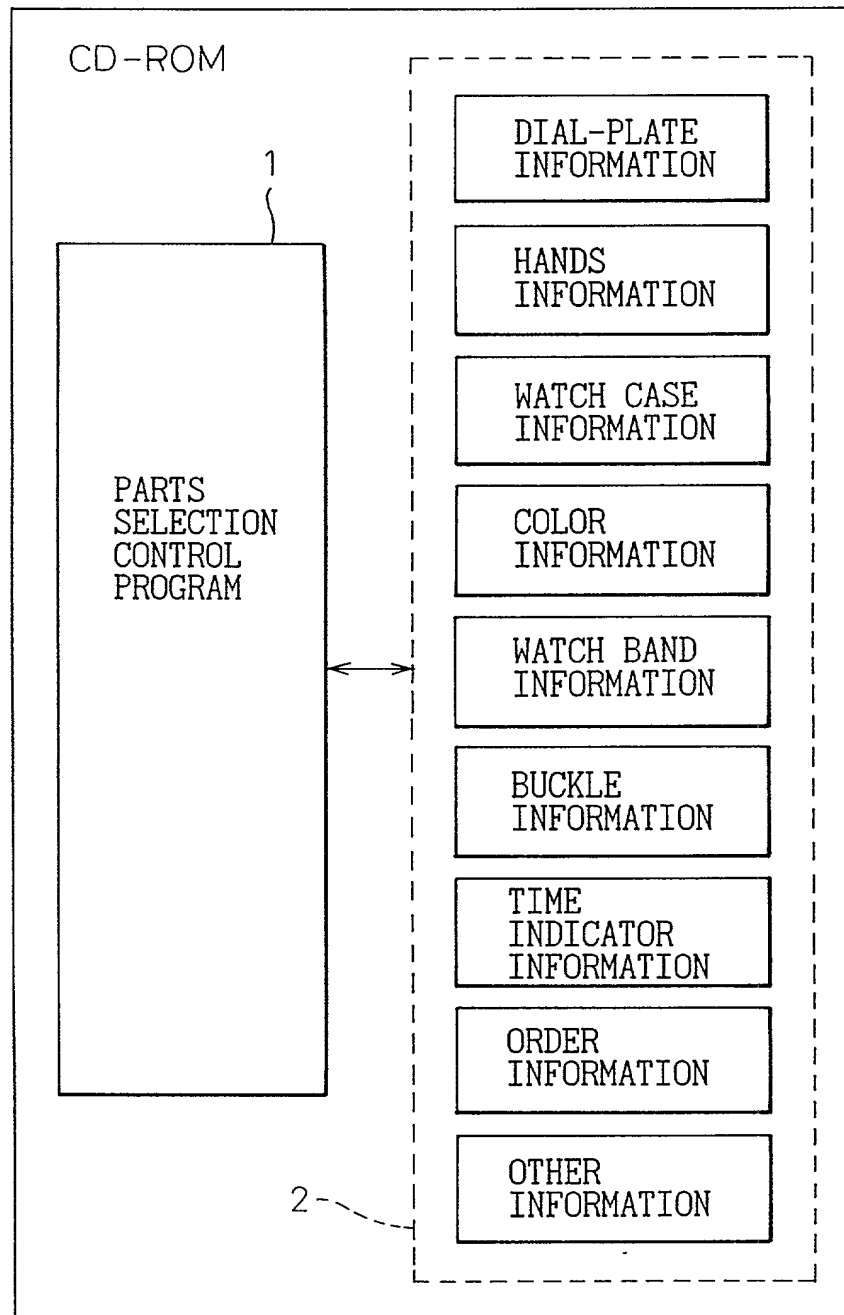


Fig.14

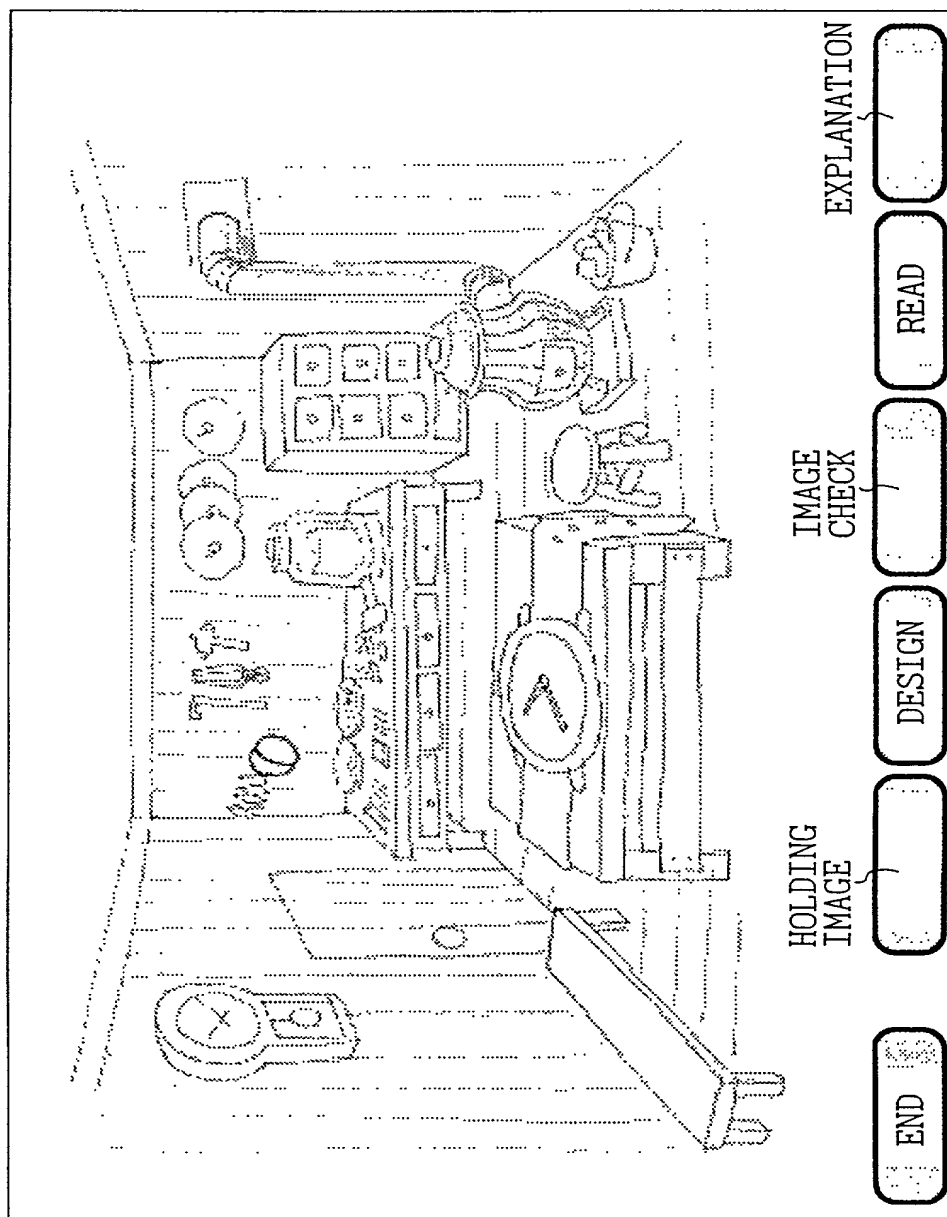


Fig.15

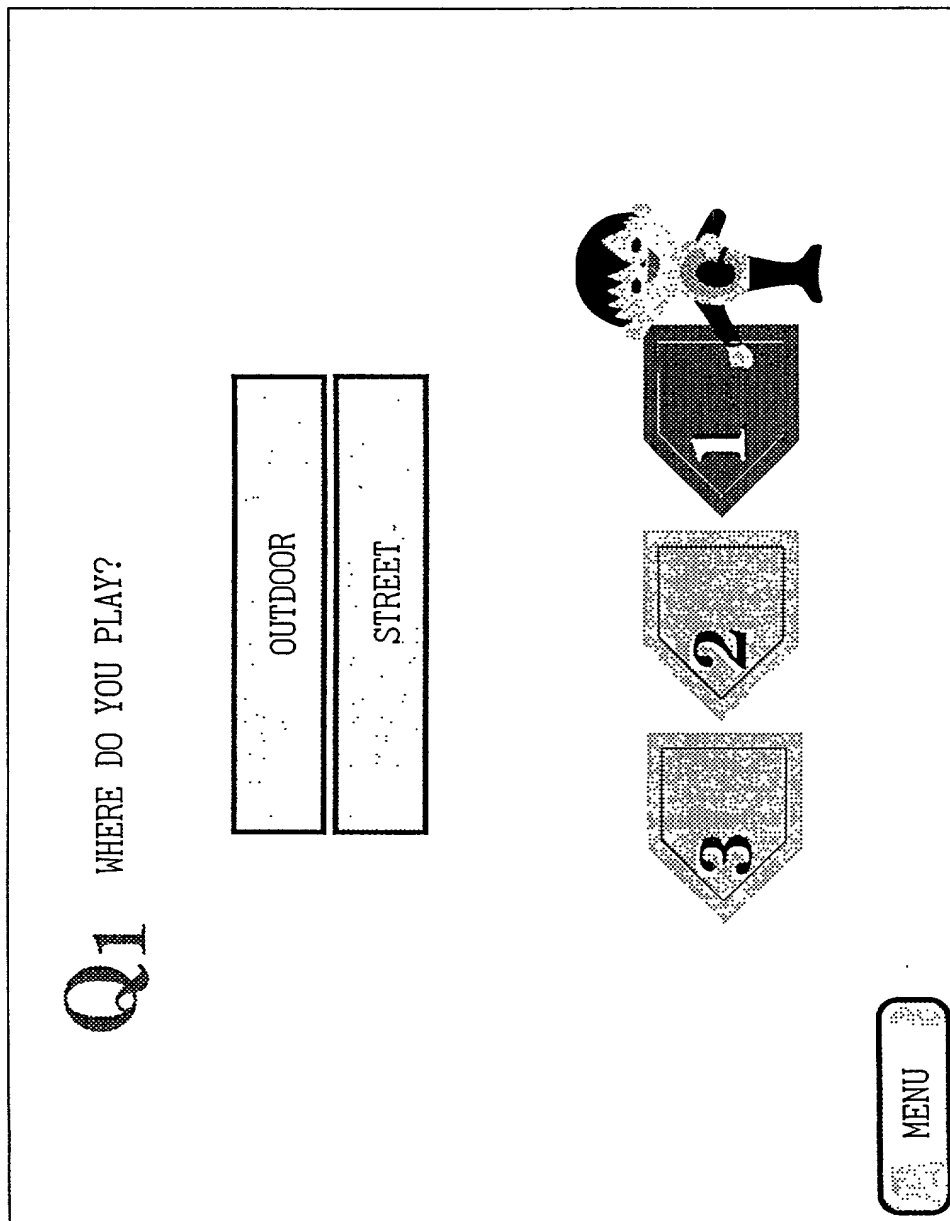


Fig.16

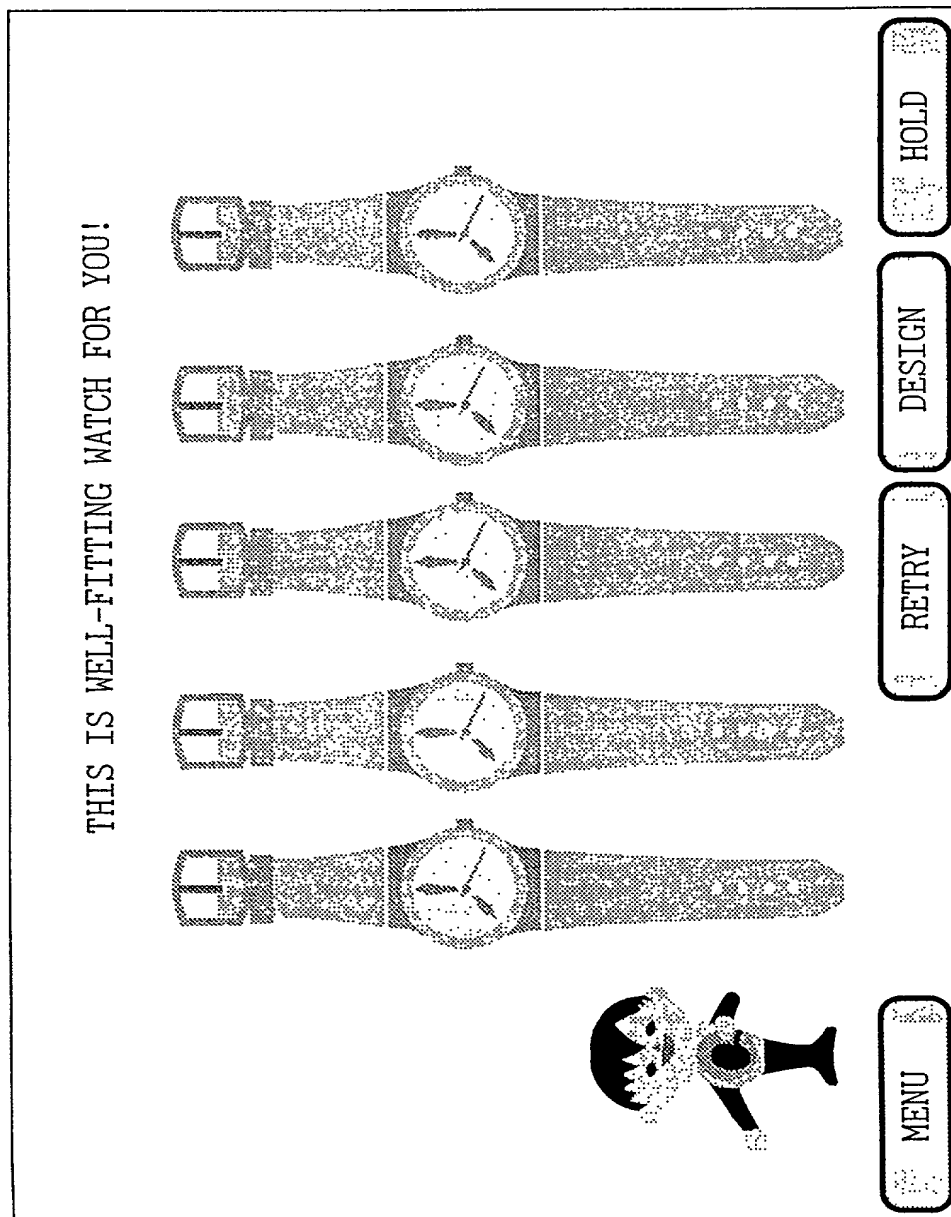


Fig.17

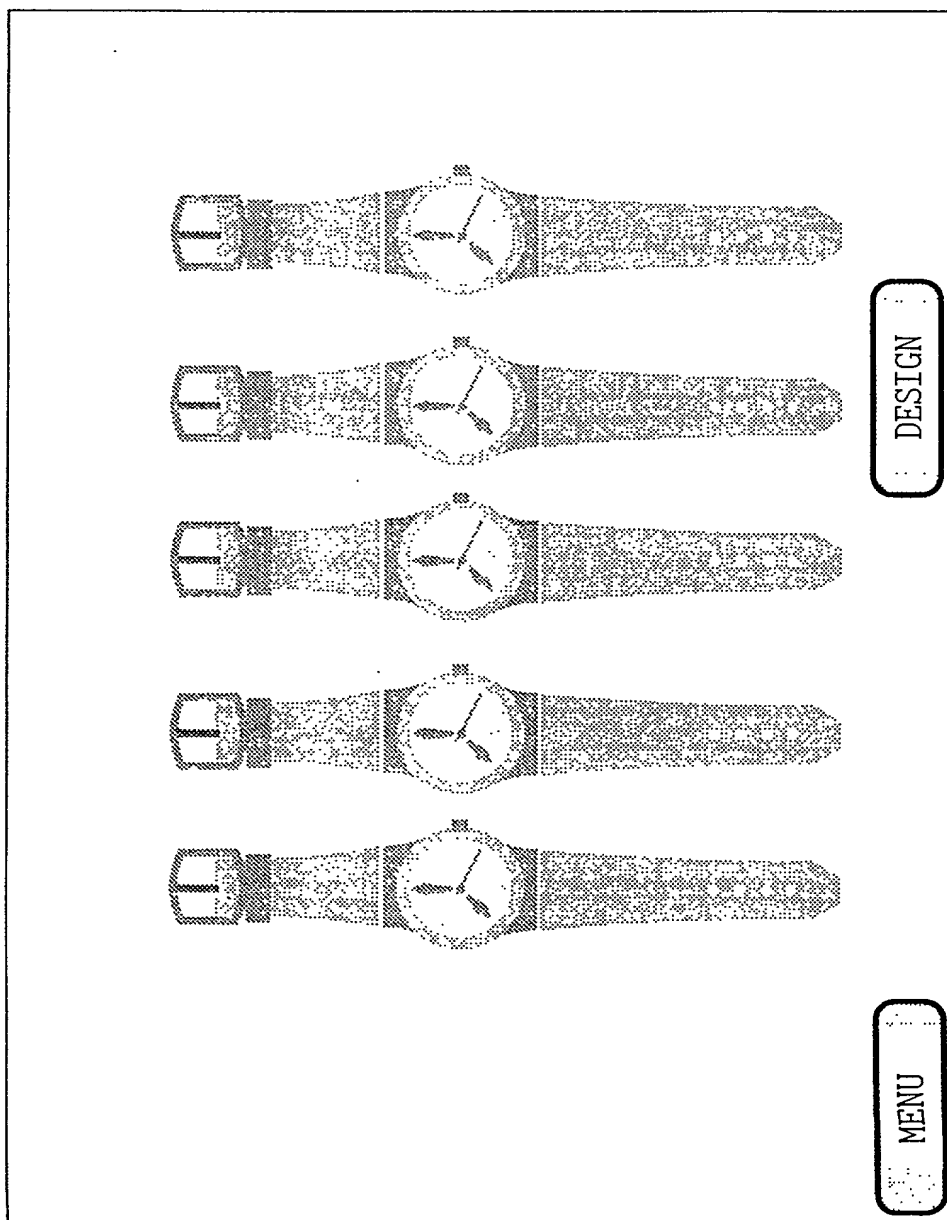


Fig. 18

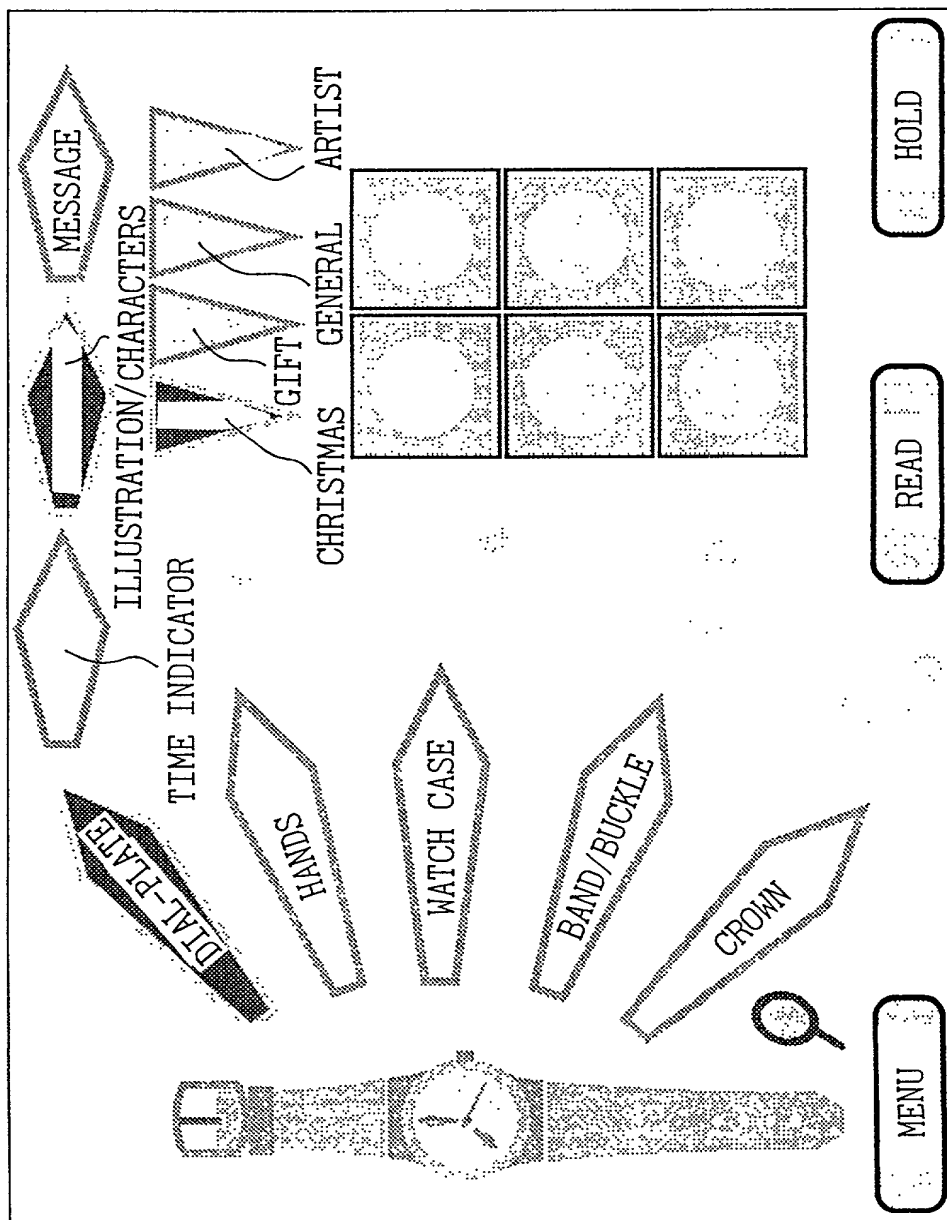


Fig.19

GENERAL

ARTIST

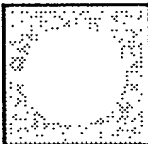
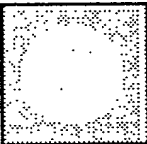
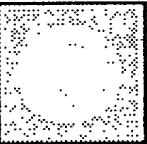
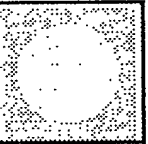

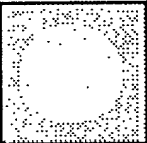

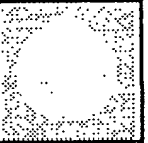
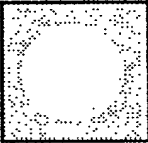
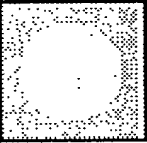
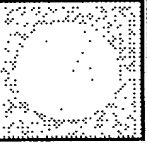
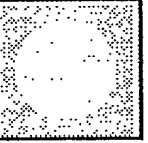
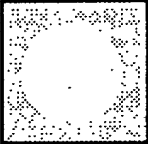
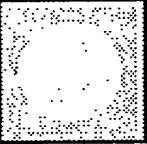
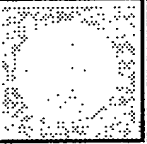
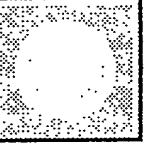
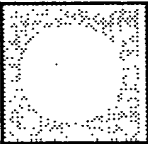
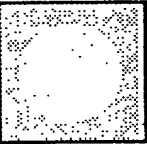
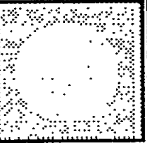
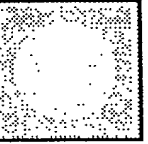
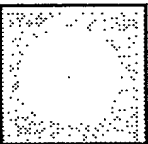
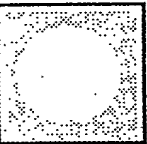
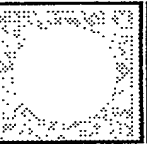
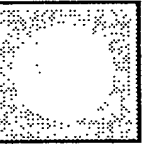
CHRISTMAS

GIFT

1

2

3

MENU

RETURN

Fig. 20

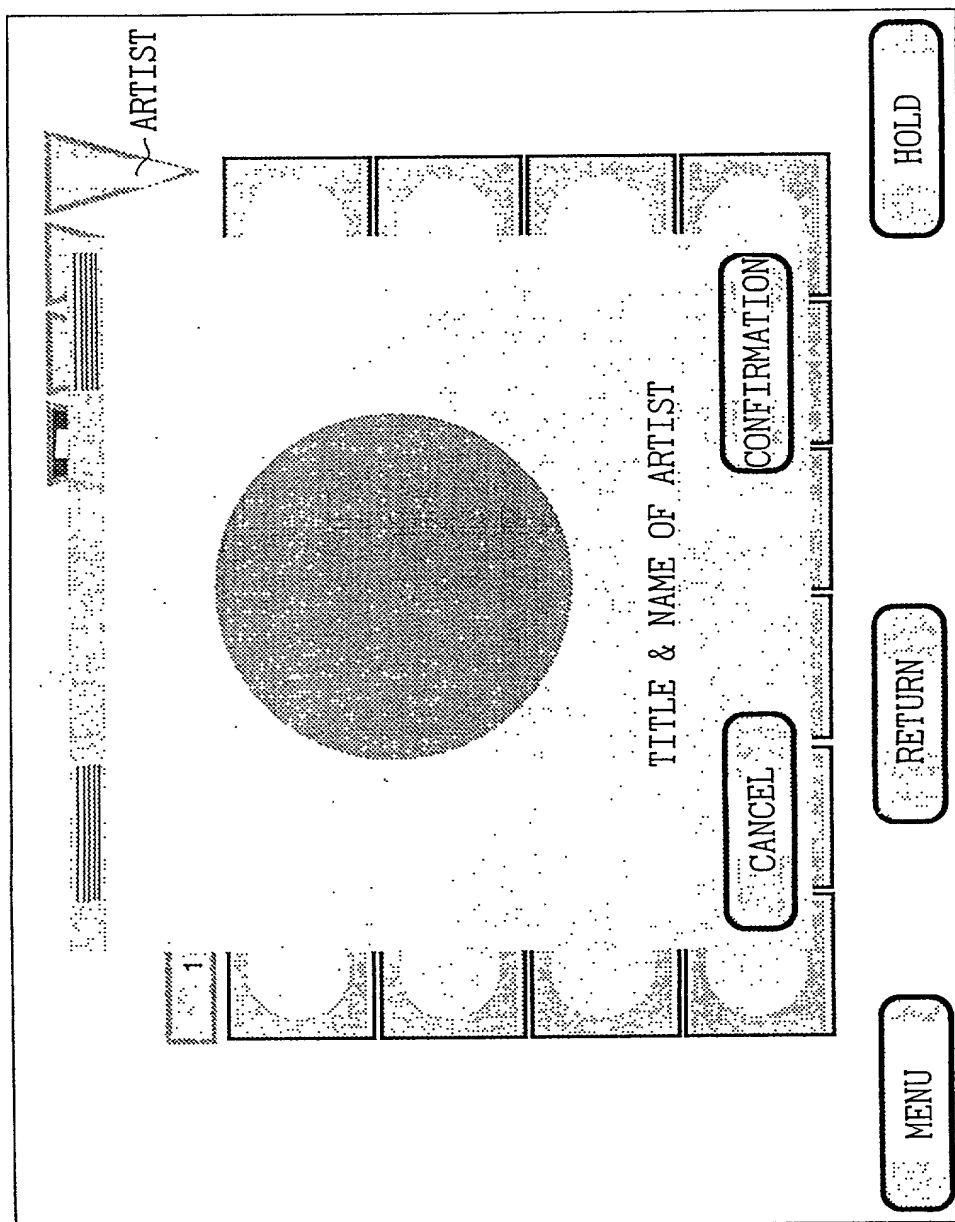


Fig. 21

ILLUSTRATION/CHARACTERS

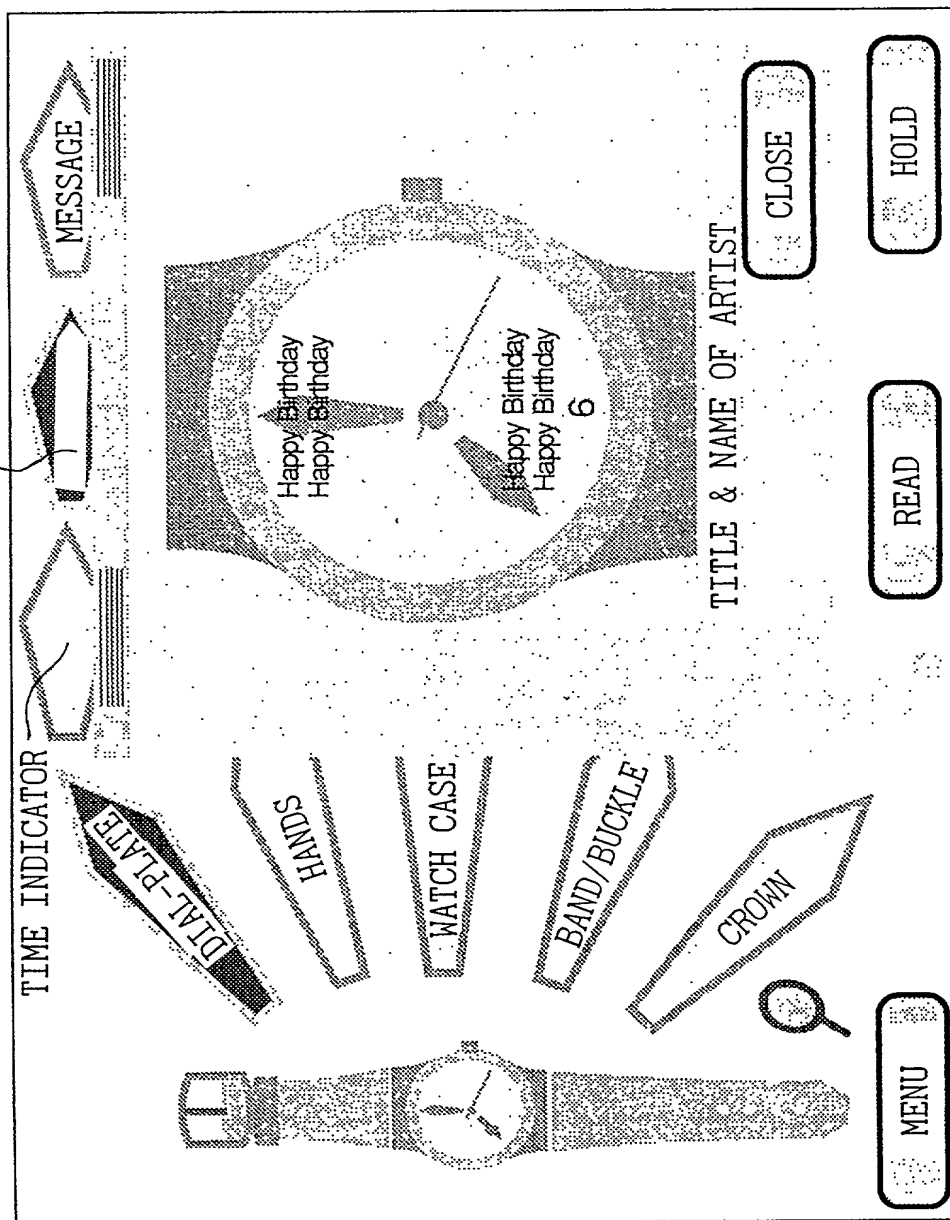


Fig.22

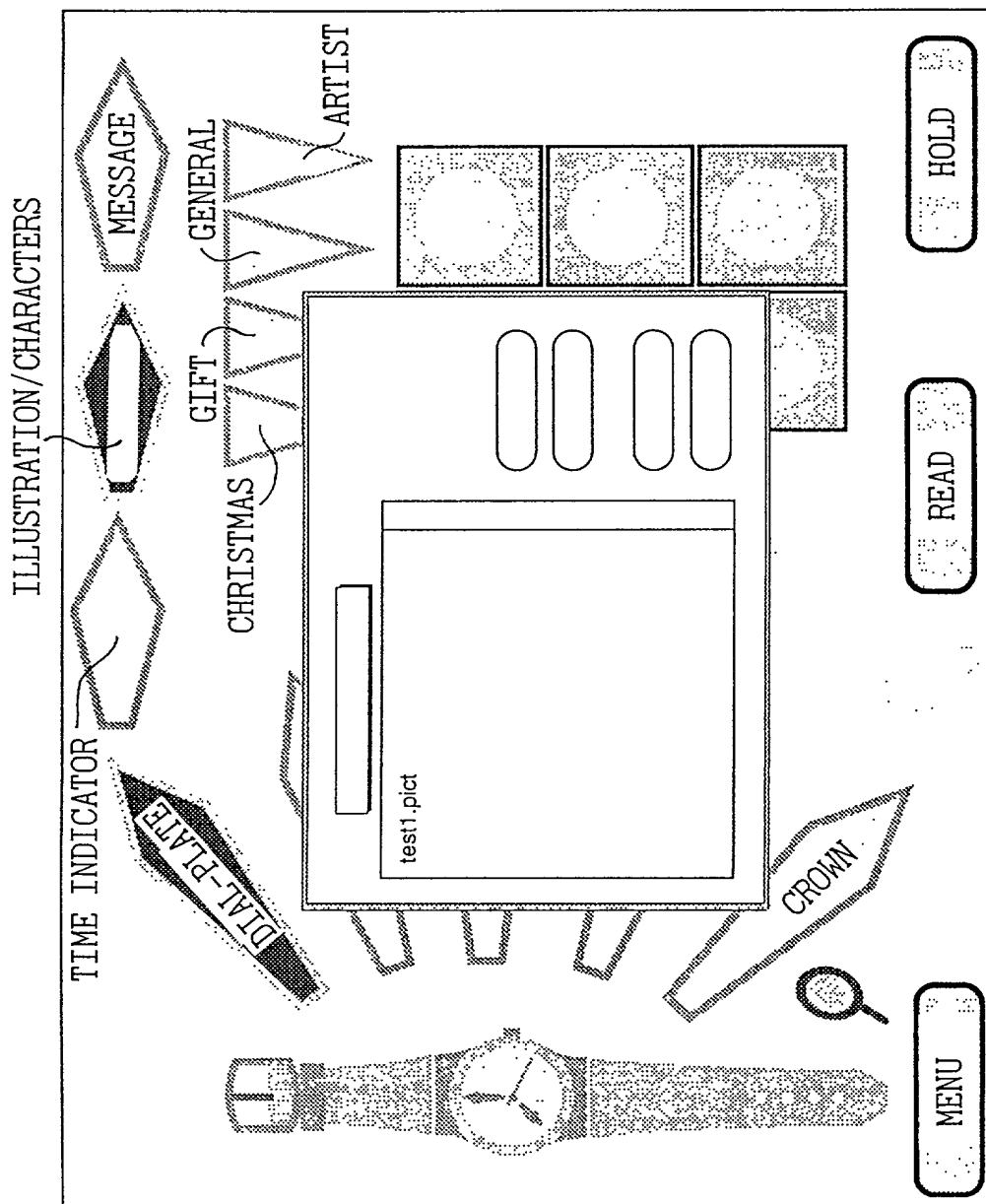


Fig. 23

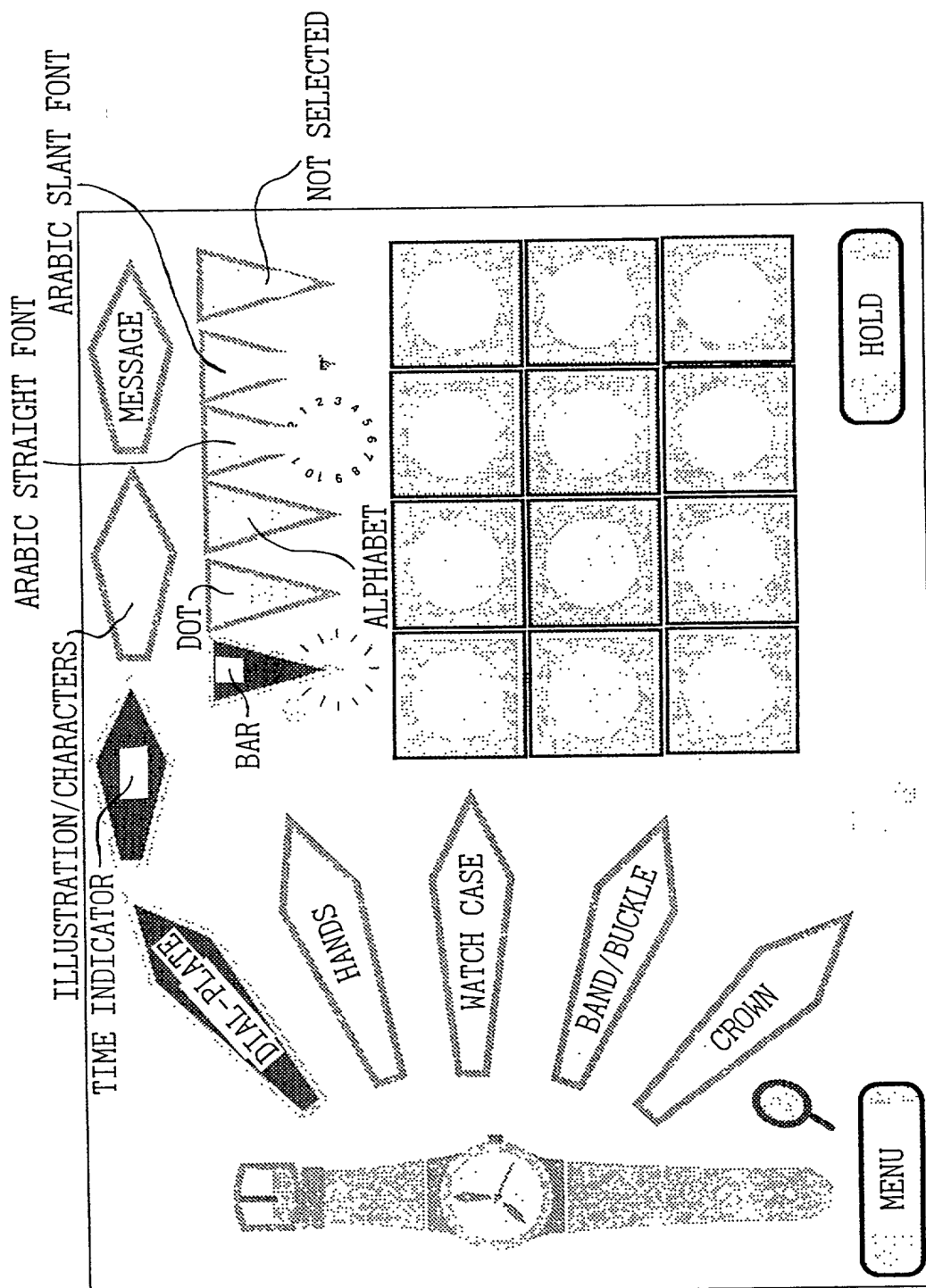


Fig. 24

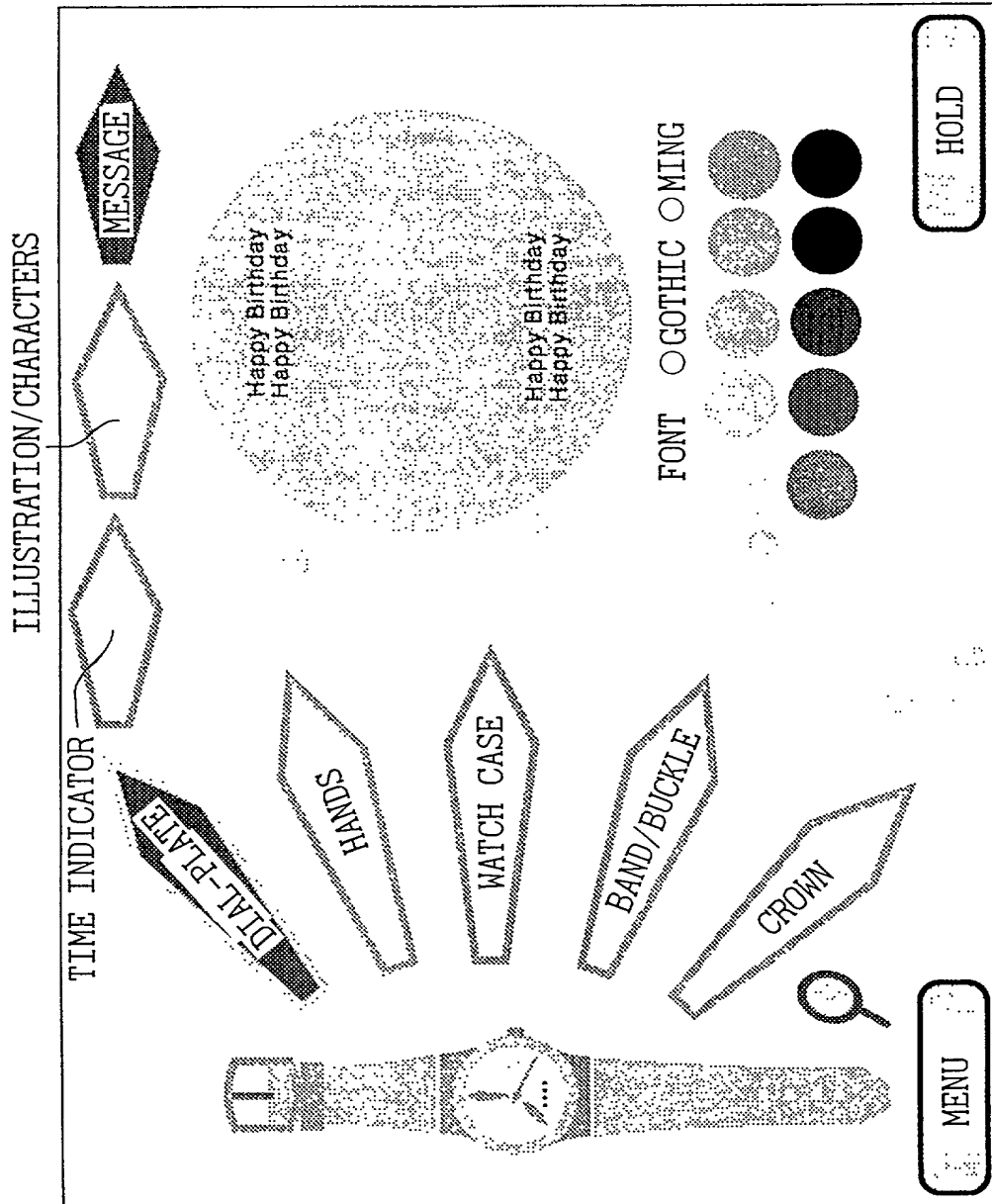


Fig. 25

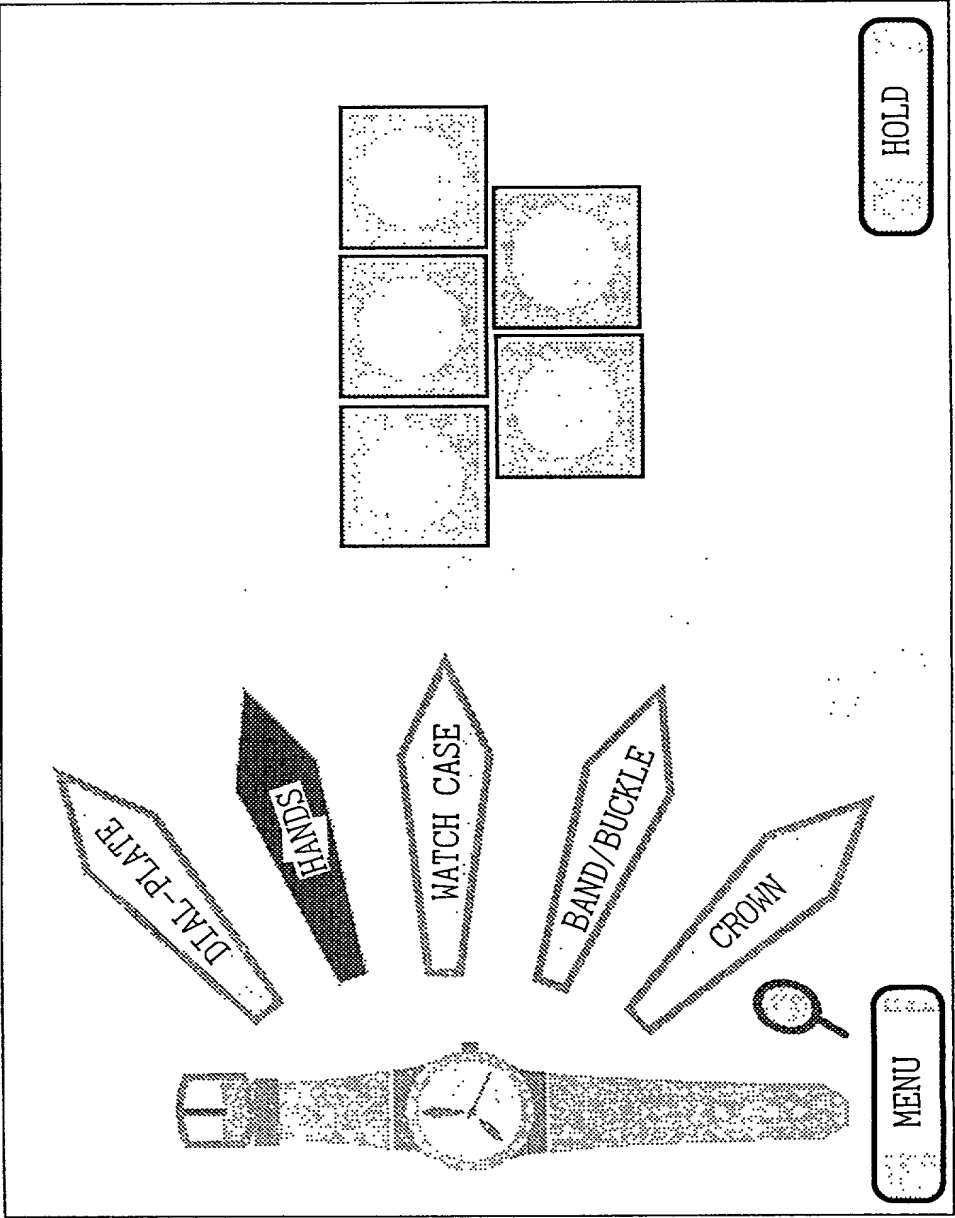


Fig. 26

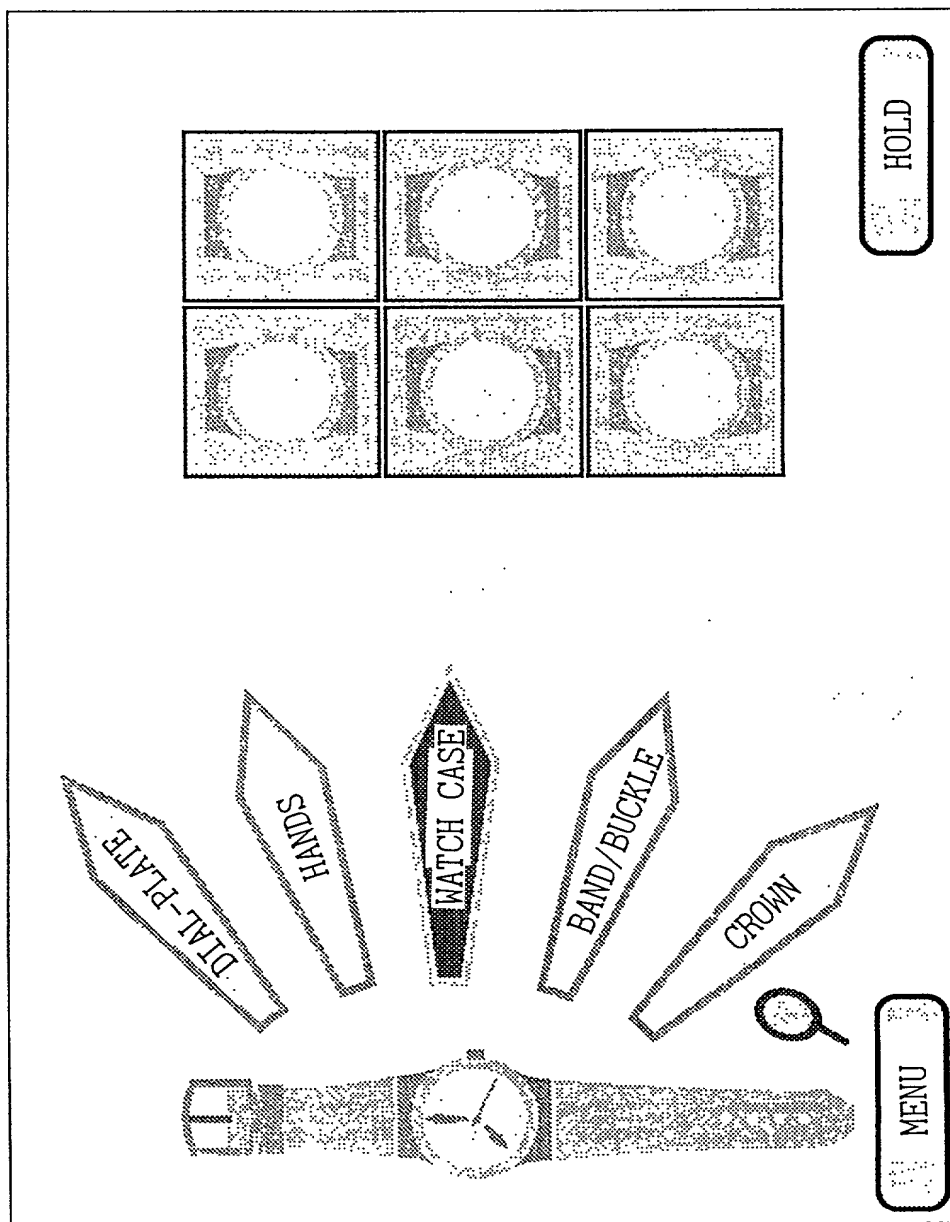


Fig.27

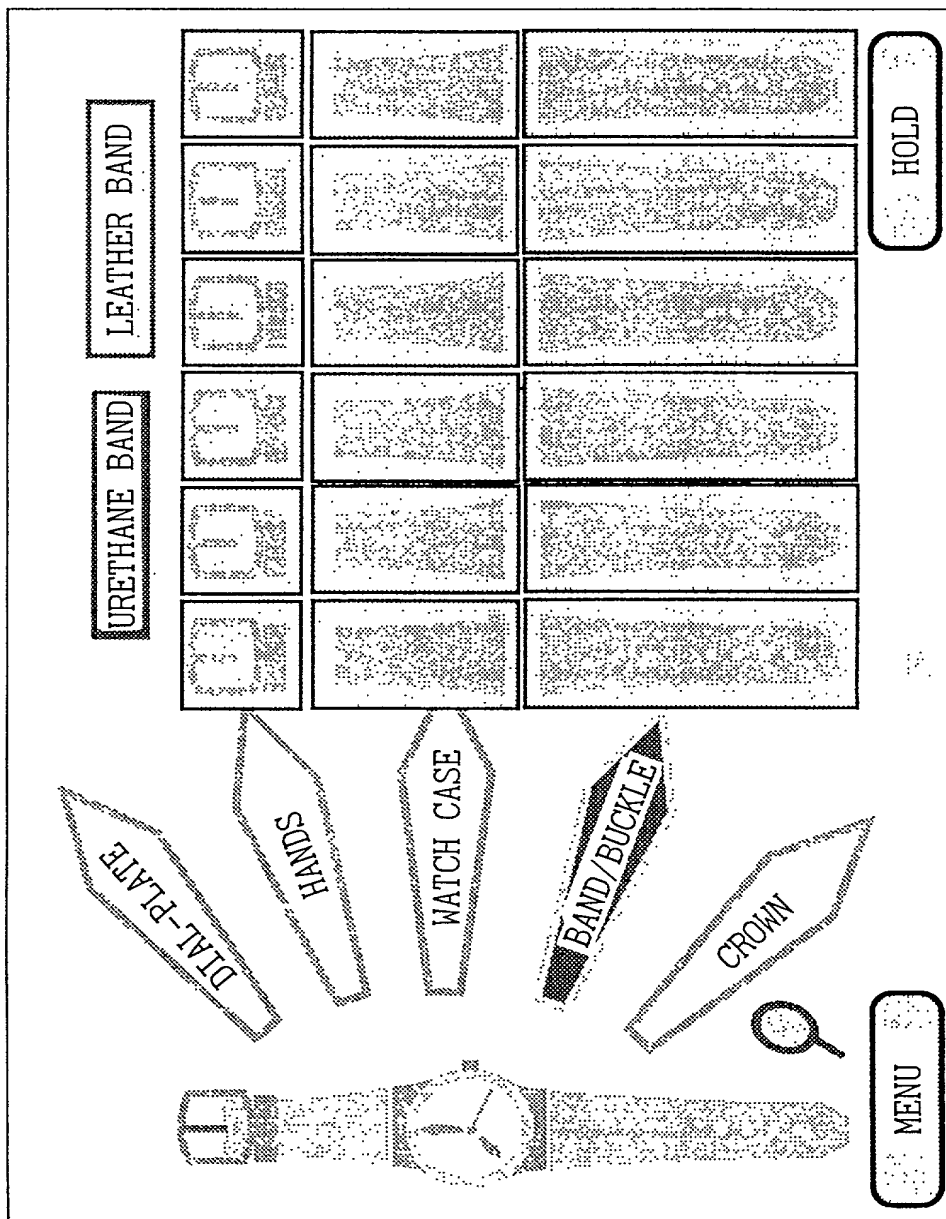
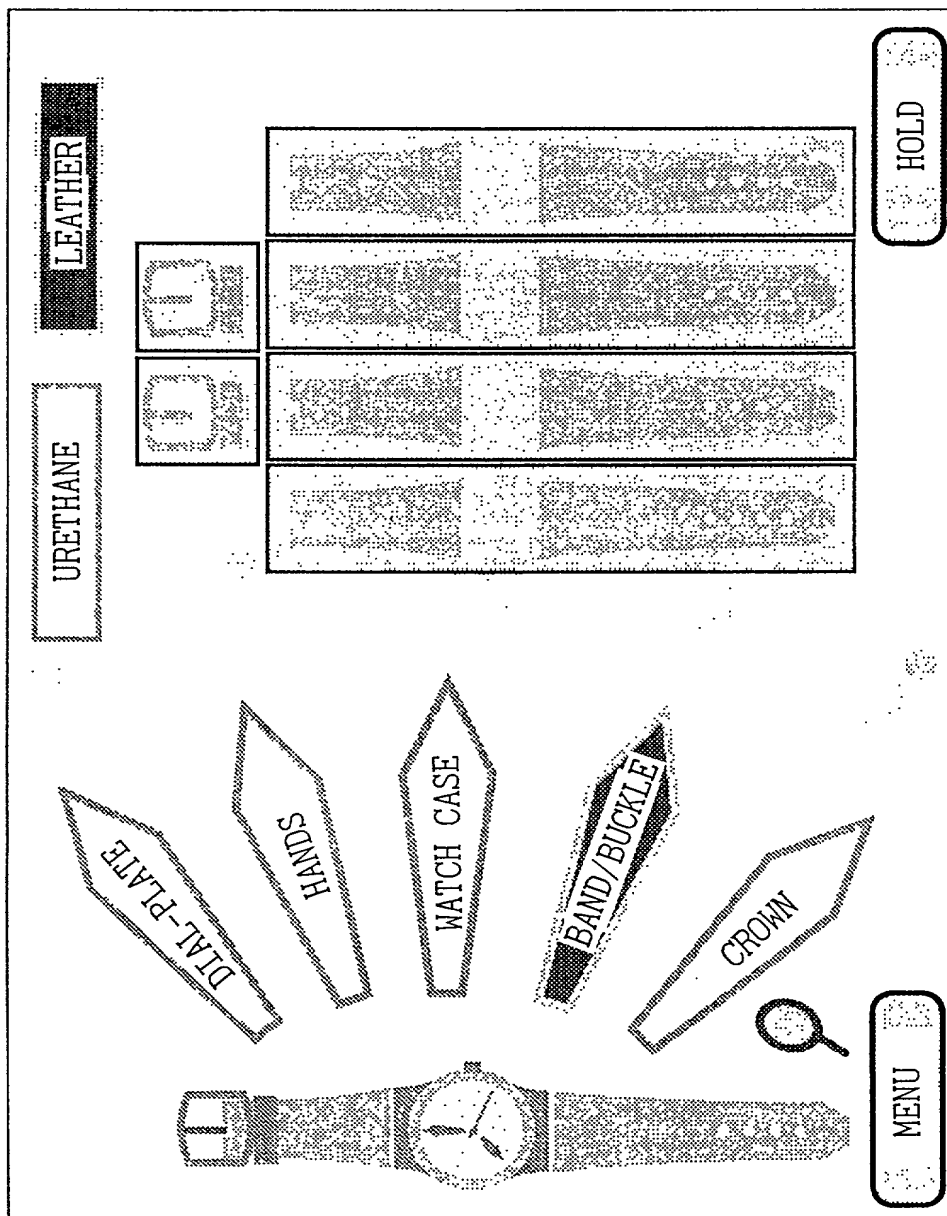


Fig. 28



552040" 29048260

Fig. 29

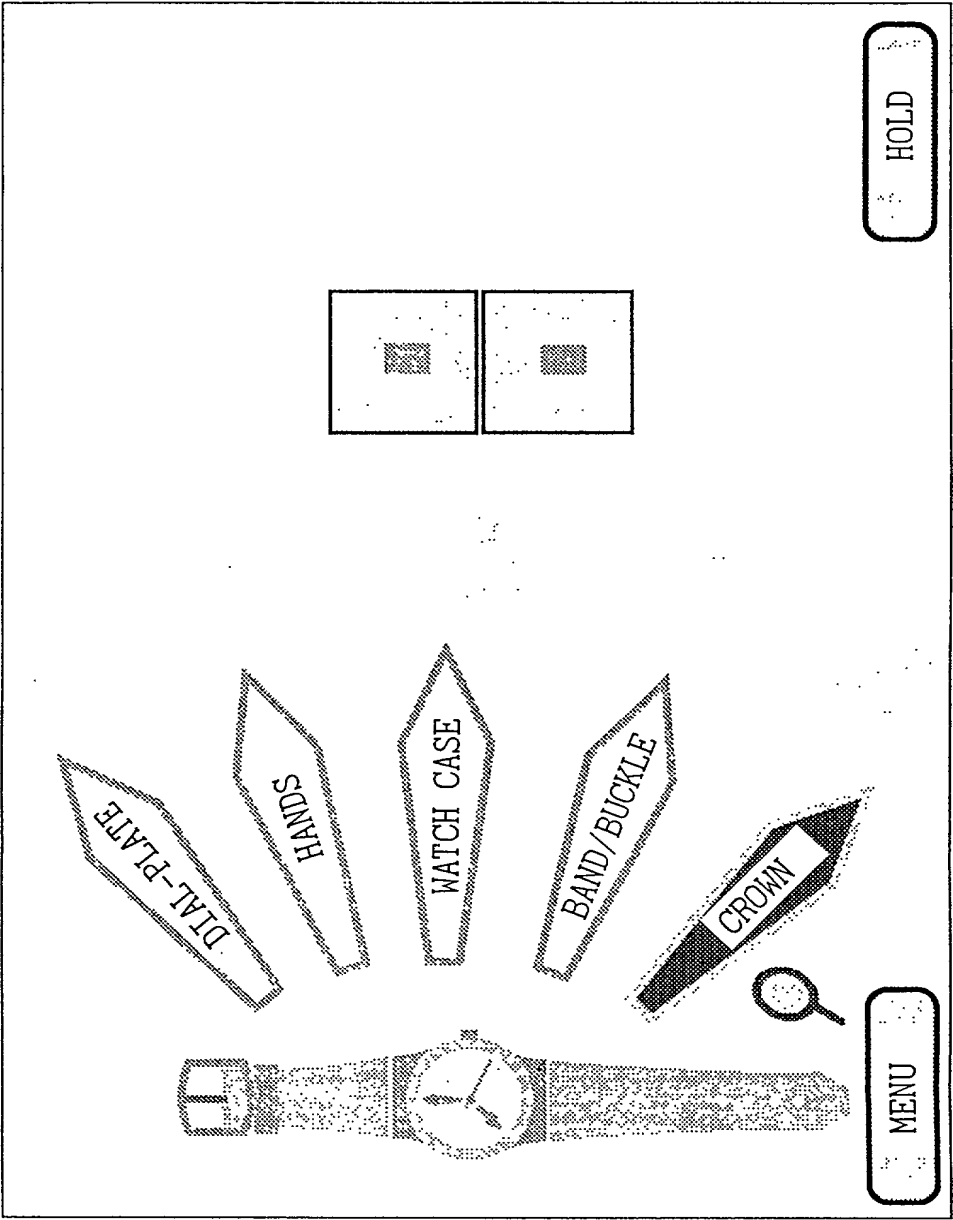
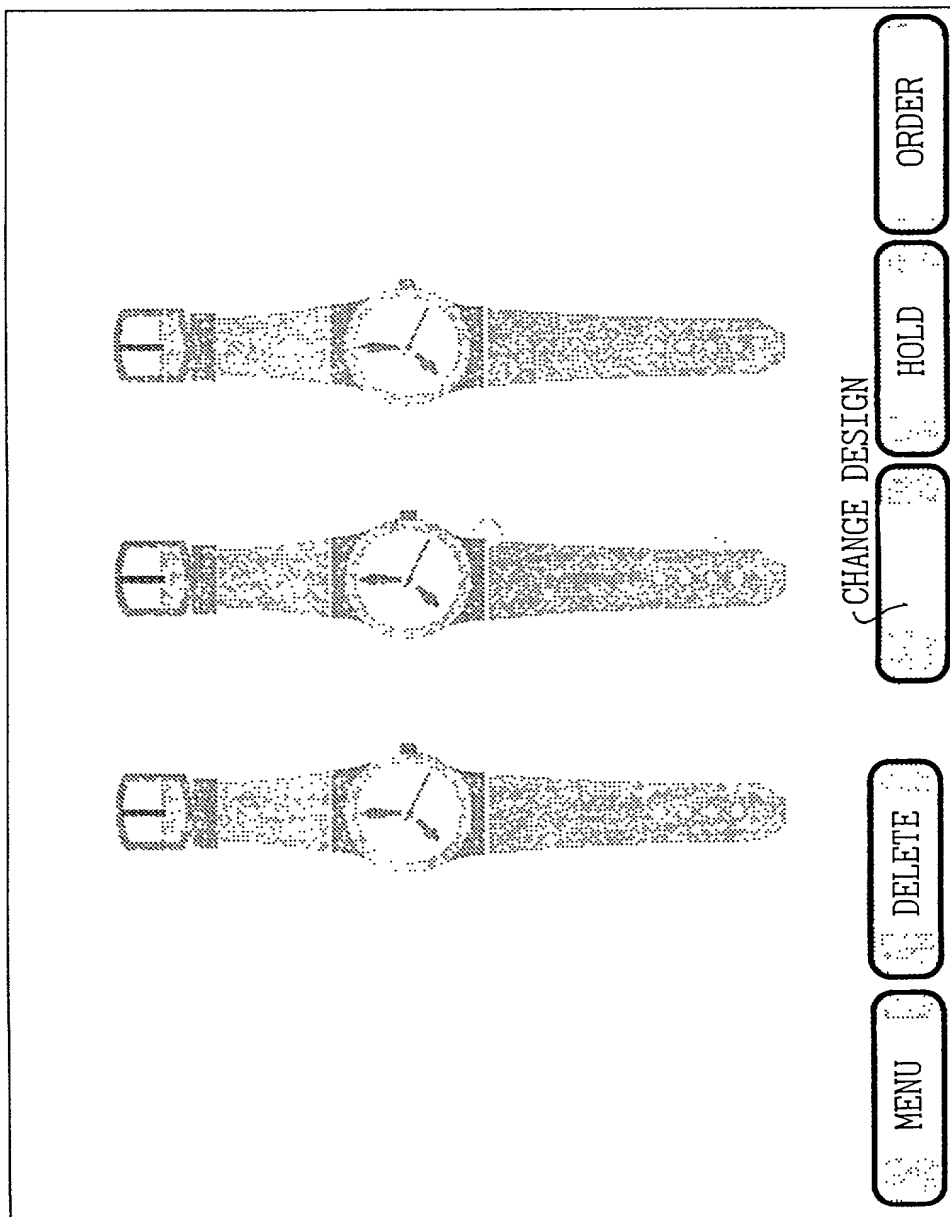


Fig. 30



652040" 29048260

Fig. 31

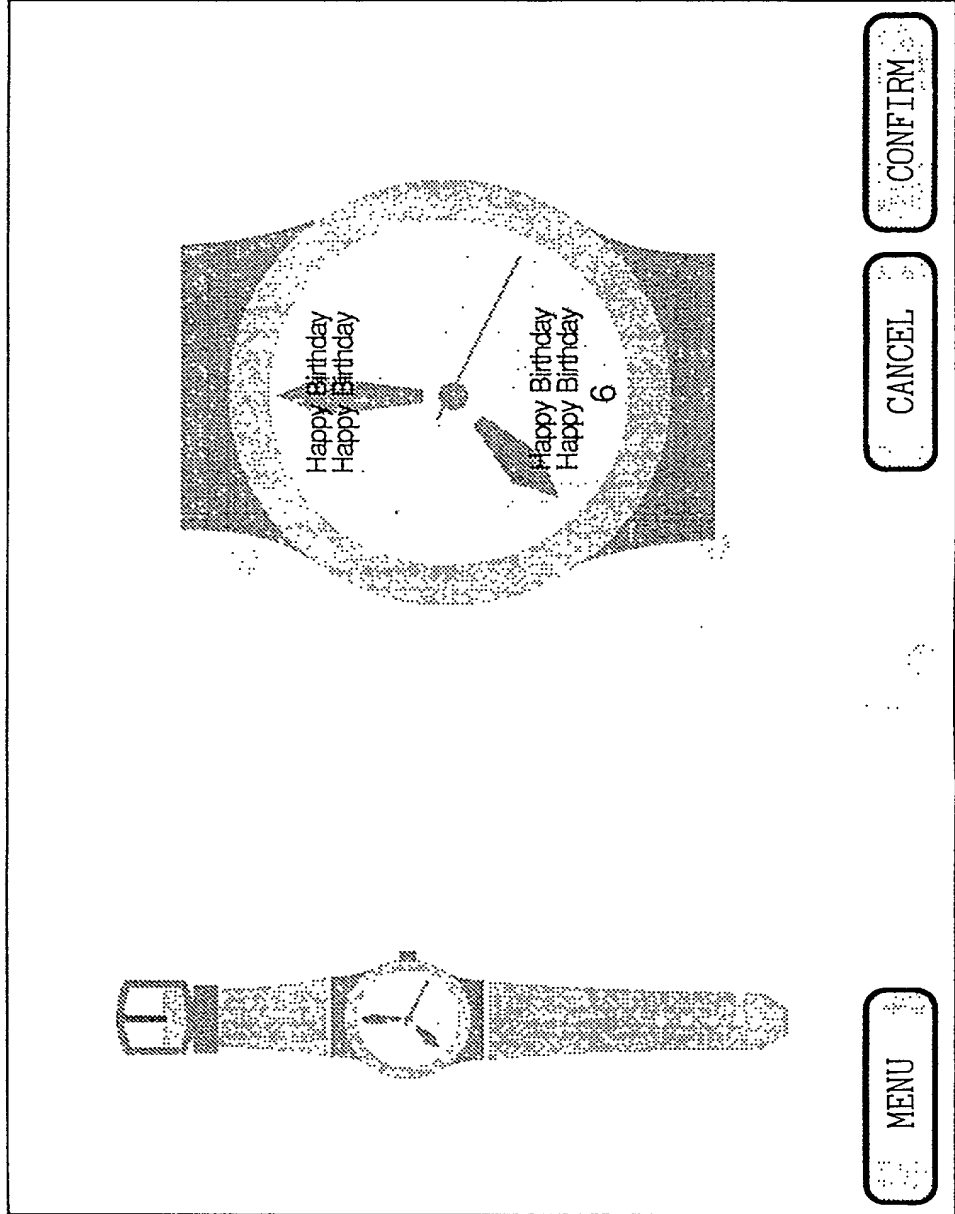



Fig.32



KANA LETTERS

YOUR NAME

MAIL NUMBER

ADDRESS

TELEPHONE NUMBER

E-MAIL

THE NUMBER PIECES

PLEASE FILL WHEN DESTINATION OF
ARTICLE IS DIFFERENT FROM THE ABOVE.

KANA LETTERS

YOUR NAME

MAIL NUMBER

ADDRESS


TELEPHONE NUMBER

WISH TO CONFIRM COLOR TONE
(¥ × × × × × UP)

☐ WISH ☐ DON'T WISH

CONFIRM SUM OF MONEY

Fi. 9.33



KANA LETTERS
 YOUR NAME
 MAIL NUMBER
 ADDRESS
 TELEPHONE NUMBER
 E-MAIL
 THE NUMBER PIECES
 PLEASE FILL WHEN DESTINATION OF
 ARTICLE IS DIFFERENT FROM THE ABOVE.
 KANA LETTERS
 YOUR NAME
 MAIL NUMBER
 ADDRESS
 TELEPHONE NUMBER
 WISH TO CONFIRM COLOR TONE ☐ WISH ☐ DON'T
 (¥ × × × × UP) PRICE × × × × UNIT × × × × × × WISH
 THE NUMBER × × × × TAX × × × ×
 A SUM OF MONEY TOTAL × × × ×

PLEASE TRANSFER ABOVE SUM OF MONEY TO THIS FIRM
 × × × × BANK × × × × BRANCH OFFICE ACCOUNT NUMBER × × × × × × × × × ×

Fig. 34

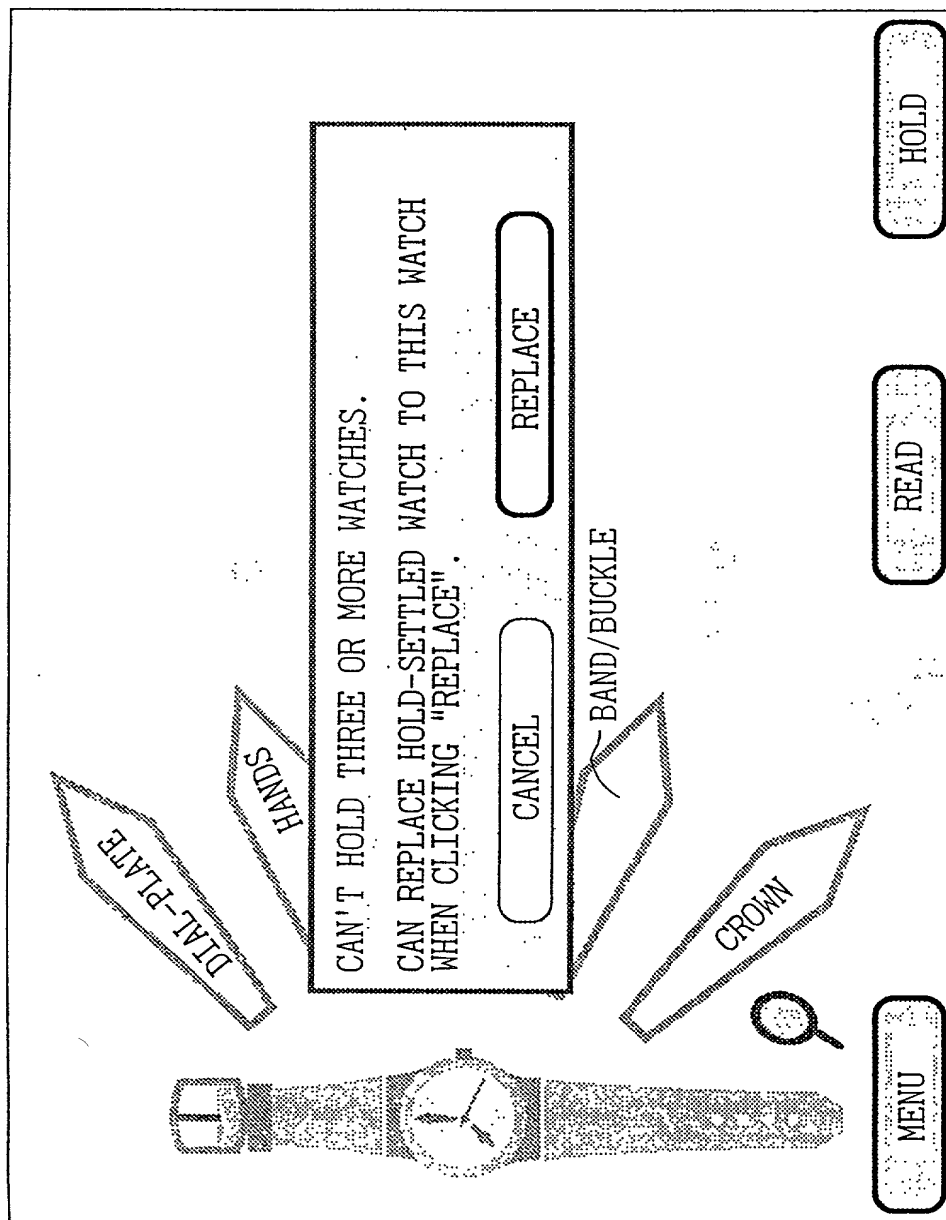


Fig. 35

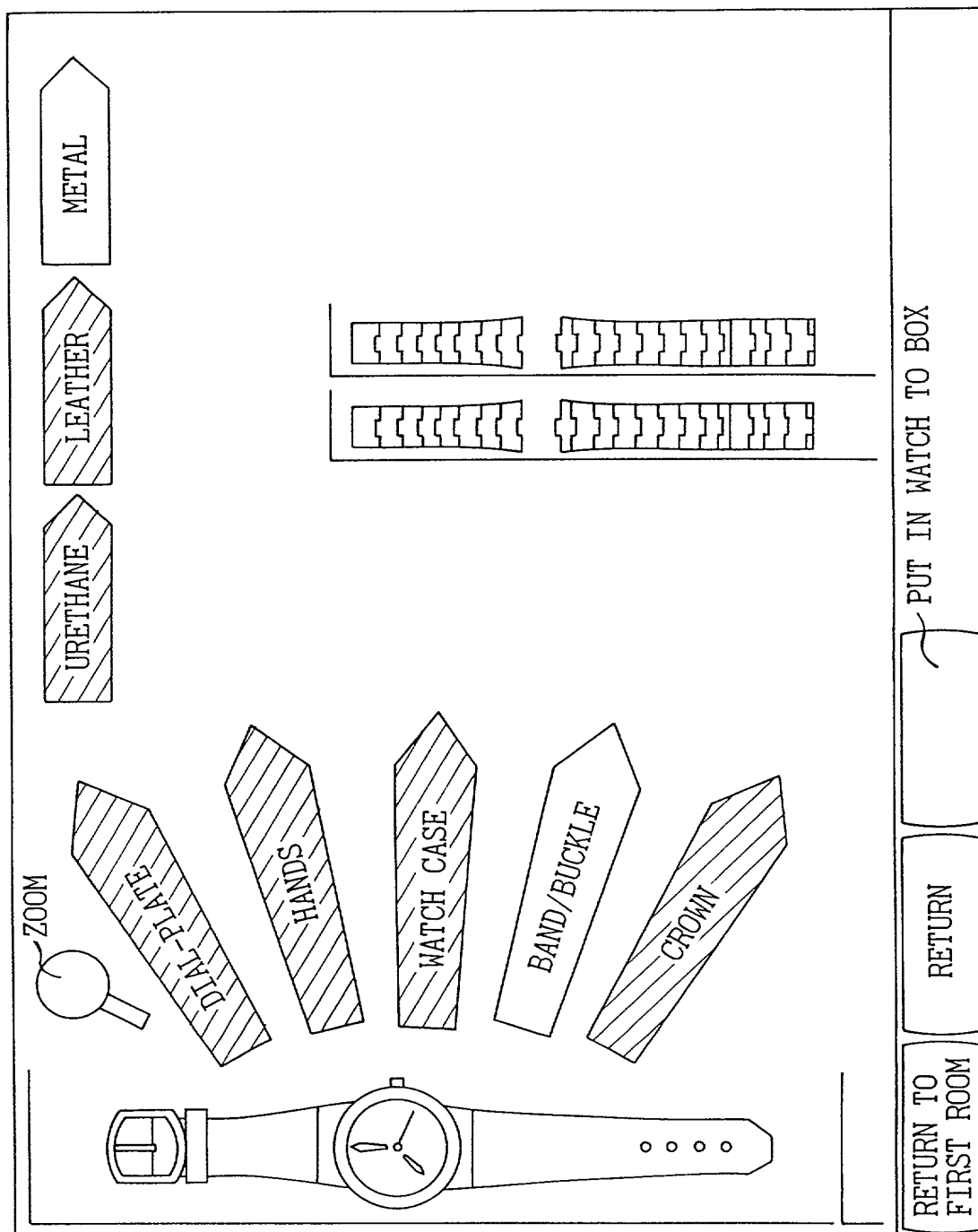
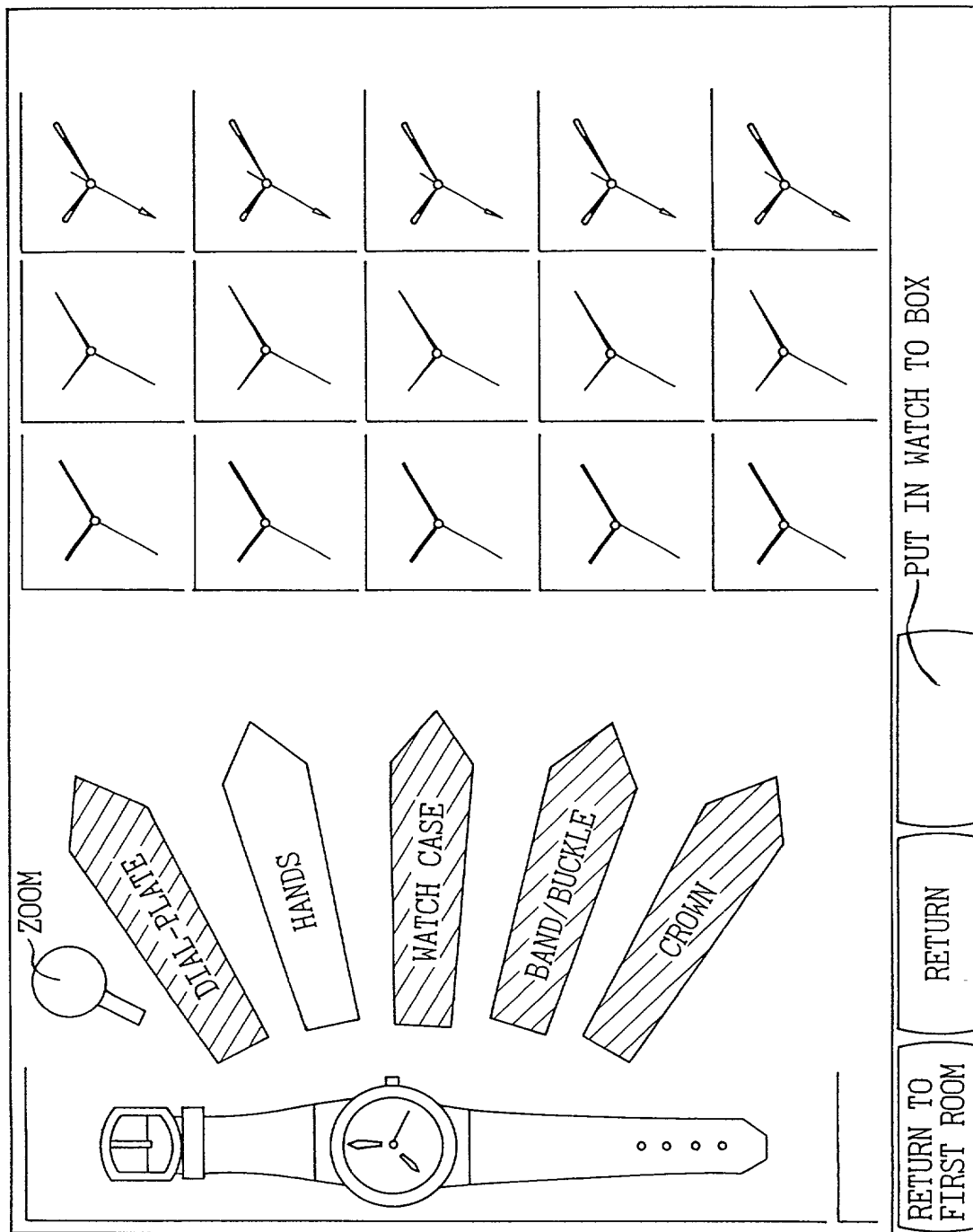


Fig .36



A LIST OF REFERENCE CODES

1: PARTS SELECTION CONTROL PROGRAM

2: PARTS DESIGN INFORMATION

C: CONSUMER

FD: FLOPPY DISK

M: CLOCK MAKER

H: HOST COMPUTER

ME: MEMORY

PATENT

Attorney Docket No. 01165.0747

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)	
)	
Hiroyuki HARASAKI ET AL.)	
)	
Serial No.: 09/284,067)	Group Art Unit: Unassigned
)	
Filed: April 7, 1999)	Examiner: Unassigned
)	
For: AN ARTICLE DESIGN)	
CREATING SYSTEM AND)	
METHOD OF THE SAME)	

National Phase of PCT/JP97/03625
Filed October 8, 1997

Assistant Commissioner for Patents
Box PCT
Washington, D.C. 20231

Sir:

DECLARATION OF SHIRO KATO

I, Shiro KATO, hereby declare:

- (1) That I am a co-inventor of the subject matter which is claimed and for which a patent is sought on the above-identified invention;
- (2) That I am a co-inventor of the subject matter which is claimed and for which a patent is sought in PCT International Application No. PCT/JP97/03625, filed on October 8, 1997, which claims foreign priority benefits under 35 U.S.C. § 119 of Japanese Application No. 8-267449, filed October 8, 1996, as correctly shown on the executed

LAW OFFICES
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FARABOW, GARRETT,
& DUNNER, L.L.P.
1300 I STREET, N.W.
WASHINGTON, D. C. 20005
202-408-4000

declaration which was filed in the U.S. Patent and Trademark Office on April 7, 1999;

- (3) That the correct spelling of my full name in the English language is Shiro KATO, my given name being Shiro, and my family name KATO, as shown on the executed declaration which was filed in the U.S. Patent and Trademark Office on April 7, 1999;
- (4) That I am an employee of the assignee, CITIZEN WATCH CO., LTD., the Applicant in the PCT International Application, and that when the Applicant filed the PCT International Application, the English-language translation of my name was incorrectly spelled through inadvertent error on the filing papers (REQUEST) for the PCT International Application as KATOH, Shirou;
- (5) That I was not aware of this error nor was it called to my attention until I signed the Declaration for filing in the U.S. Patent and Trademark Office on March 26, 1999, wherein the spelling of my name in the English language was corrected on the Declaration and wherein my signature is a representation of the correct spelling of my name in the English language; and
- (6) That all statements made herein of my own knowledge are true, and all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under § 1001 of Title 18

of the United States Code and that such willful false statements may
jeopardize the validity of this patent.

Dated: June 18, 1999

KATO, Shiro
Shiro KATO

65/040/9048250

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202-406-4000

Declaration and Power of Attorney For Patent Application

特許出願宣言書及び委任状

Japanese Language Declaration

日本語宣言書

下記の氏名の発明者として、私は以下の通り宣言します。

As a below named inventor, I hereby declare that:

私の住所、私書箱、国籍は下記の私の氏名の後に記載された通りです。

My residence, post office address and citizenship are as stated next to my name.

下記の名称の発明に関して請求範囲に記載され、特許出願している発明内容について、私が最初かつ唯一の発明者（下記の氏名が一つの場合）もしくは最初かつ共同発明者であると（下記の名称が複数の場合）信じています。

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

AN ARTICLE DESIGN CREATING

SYSTEM AND METHOD OF THE SAME

上記発明の明細書（下記の欄でx印がついていない場合は、本書に添付）は、

the specification of which is attached hereto unless the following box is checked:

☐ __月__日に提出され、米国出願番号または特許協定条約国際出願番号を____とし、
(該当する場合) _____ に訂正されました。☒ was filed on October 8, 1997
as United States Application Number or
PCT International Application Number
PCT/JP97/03625 and was amended on
July 27, 1998 (if applicable).

私は、特許請求範囲を含む上記訂正後の明細書を検討し、内容を理解していることをここに表明します。

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

私は、連邦規則法典第37編第1条56項に定義されるとおり、特許資格の有無について重要な情報を開示する義務があることを認めます。

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Japanese Language Declaration (日本語宣言書)

私は、米国法典第35編119条(a)-(d)項又は365条(b)項に基づき下記の、米国以外の国の少なくとも一カ国を指定している特許協力条約365(a)項に基づく国際出願、又は外国での特許出願もしくは発明者証の出願についての外国優先権をここに主張するとともに、優先権を主張している、本出願の前に出願された特許または発明者証の外国出願を以下に、枠内をマークすることで、示しています。

Prior Foreign Application(s)

外国での先行出願 8-267449 (Pat. Appln.)	Japan
(Number) (番号)	(Country) (国名)
_____	_____
(Number) (番号)	(Country) (国名)
_____	_____

私は、第35編米国法典119条(e)項に基づいて下記の米国特許出願規定に記載された権利をここに主張いたします。

(Application No.) (出願番号)	(Filing Date) (出願日)
_____	_____

私は、下記の米国法典第35編120条に基づいて下記の米国特許出願に記載された権利、又は米国を指定している特許協力条約365条(c)に基づき権利をここに主張します。また、本出願の各請求範囲の内容が米国法典第35編112条第1項又は特許協力条約で規定された方法で先行する米国特許出願に開示されていない限り、その先行米国出願書提出日以降で本出願書の日本国内または特許協力条約国際提出日までの期間に入手された、連邦規則法典第37編1条56項で定義された特許資格の有無に関する重要な情報について開示義務があることを認識しています。

(Application No.) (出願番号)	(Filing Date) (出願日)
_____	_____

(Application No.) (出願番号)	(Filing Date) (出願日)
_____	_____

私は、私自身の知識に基づいて本宣言書で私が行なう表明が真実であり、かつ私の入手した情報と私の信じていることに基づき表明が全て真実であると信じていること、さらに故意になされた虚偽の表明及びそれと同等の行為は米国法典第18編第1001条に基づき、罰金または拘禁、もしくはその両方により処罰されること、そしてそのような故意による虚偽の声明を行なえば、出願した、又は既に許可された特許の有効性が失われることを認識し、よってここに上記のごとく宣誓を致します。

I hereby claim foreign priority under Title 35, United States Code, Section 119 (a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed.

Priority Not Claimed

優先権主張なし

8/October/1996

(Day/Month/Year Filed)
(出願年月日)

(Day/Month/Year Filed)
(出願年月日)

I hereby claim the benefit under Title 35, United States Code, Section 119(e) of any United States provisional application(s) listed below.

(Application No.) (出願番号)	(Filing Date) (出願日)
_____	_____

I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s), or 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code Section 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of application.

(Status: Patented, Pending, Abandoned) (現況: 特許許可済、係属中、放棄済)

(Status: Patented, Pending, Abandoned) (現況: 特許許可済、係属中、放棄済)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Japanese Language Declaration

委任状：私は、下記発明者として、以下の弁理士及び代理人、またはそのいずれかをここに選任し、本願の手続きを遂行すること並びにこれに関する一切の行為を米国特許商標庁に対して行うことを委任する。(代理人氏名及び登録番号を明記のこと)

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (list agent's name(s) and registration number(s))

FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, Reg. No. 22,540; Douglas B. Henderson, Reg. No. 20,291; Ford F. Farabow, Jr., Reg. No. 20,630; Arthur S. Garrett, Reg. No. 20,338; Donald R. Dunner, Reg. No. 19,073; Brian G. Brunsvold, Reg. No. 22,593; Tipton D. Jennings, IV, Reg. No. 20,645; Jerry D. Voight, Reg. No. 23,020; Laurence R. Hefter, Reg. No. 20,827; Kenneth E. Payne, Reg. No. 23,098; Herbert H. Mintz, Reg. No. 26,691; C. Larry O'Rourke, Reg. No. 26,014; Albert J. Santorelli, Reg. No. 22,640; Michael C. Eimer, Reg. No. 25,857; Richard H. Smith, Reg. No. 20,609; Stephen L. Peterson, Reg. No. 26,325; John M. Romary, Reg. No. 26,331; Bruce C. Zotter, Reg. No. 27,680; Dennis P. O'Reilly, Reg. No. 27,932; Allen M. Sokal, Reg. No. 26,695; Robert D. Bajelsky, Reg. No. 25,387; Richard L. Stroup, Reg. No. 28,478; David W. Hill, Reg. No. 28,220; Thomas L. Irving, Reg. No. 28,619; Charles E. Lipsey, Reg. No. 28,165; Thomas W. Winland, Reg. No. 27,605; Basil J. Lewis, Reg. No. 28,818; Martin I. Fuchs, Reg. No. 28,508; E. Robert Yoches, Reg. No. 30,120; Barry W. Graham, Reg. No. 29,924; Susan Haberman Griffen, Reg. No. 30,907; Richard B. Racine, Reg. No. 30,415; Thomas H. Jenkins, Reg. No. 30,857; Robert E. Converse, Jr., Reg. No. 27,432; Clair X. Mullen, Jr., Reg. No. 20,348; Christopher P. Foley, Reg. No. 31,354; John C. Paul, Reg. No. 30,413; Roger D. Taylor, Reg. No. 28,992; David M. Kelly, Reg. No. 30,953; Kenneth J. Meyers, Reg. No. 25,146; Carol P. Einaudi, Reg. No. 32,220; Walter Y. Boyd, Jr., Reg. No. 31,738; Steven M. Anzalone, Reg. No. 32,095; Jean B. Fordis, Reg. No. 32,984; Barbara C. McCurdy, Reg. No. 32,120; James K. Hammond, Reg. No. 31,964; Richard V. Burgujian, Reg. No. 31,744; J. Michael Jakes, Reg. No. 32,824; Thomas W. Banks, Reg. No. 32,719; M. Paul Barker, Reg. No. 32,013; Bryan C. Diner, Reg. No. 32,409; Christopher P. Isaac, Reg. No. 32,616; Andrew C. Sonu, Reg. No. 33,457; Dirk D. Thomas, Reg. No. 32,600

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Direct Telephone Calls to: (name and telephone number)

ARTHUR S. GARRETT
202-408-4091

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同発明者の署名	Inventor's signature Hiroyuki Harasaki
日付	Date March 26, 1999
住所	Residence Shinjuku-ku, Tokyo, Japan JPX
国籍	Citizenship Japanese
郵便の宛先	Post Office Address c/o CITIZEN WATCH CO., LTD., 1-1, 2-chome, Nishi-Shinjuku, Shinjuku-ku, Tokyo, Japan

第二の共同発明者の氏名 (該当する場合)	Full name of second joint inventor, if any Shiro Kato
同第二発明者の署名	Second inventor's signature KATO, Shiro
日付	Date March 26, 1999
住所	Residence Shinjuku-ku, Tokyo, Japan JPX
国籍	Citizenship Japanese
郵便の宛先	Post Office Address c/o CITIZEN WATCH CO., LTD., 1-1, 2-chome, Nishi-Shinjuku, Shinjuku-ku, Tokyo, Japan

(第三またはそれ以降の共同発明者に対しても同様の情報及び署名を提供すること。)

(Supply similar information and signature for third and subsequent joint inventors.)

3-0

第三の共同発明者の氏名 (該当する場合)	Full name of third joint inventor, if any <u>Izumi Kubo</u>
同第三発明者の署名 日付	Third inventor's signature Date <u>Izumi Kubo</u> March 26, 1999
住所	Residence Shinjuku-ku, Tokyo, Japan JPX
国籍	Citizenship Japanese
郵便の宛先	Post Office Address c/o CITIZEN WATCH CO., LTD., 1-1, 2-chome,
	Nishi-Shinjuku, Shinjuku-ku, Tokyo, Japan

4-00

第四の共同発明者の氏名 (該当する場合)	Full name of fourth joint inventor, if any <u>Yuri Kawashima</u>
同第四発明者の署名 日付	Fourth inventor's signature Date <u>Yuri Kawashima</u> March 26, 1999
住所	Residence Shinjuku-ku, Tokyo, Japan JPX
国籍	Citizenship Japanese
郵便の宛先	Post Office Address c/o CITIZEN WATCH CO., LTD., 1-1, 2-chome,
	Nishi-Shinjuku, Shinjuku-ku, Tokyo, Japan

5-00

第五の共同発明者の氏名 (該当する場合)	Full name of fifth joint inventor, if any <u>Akihiro Hori</u>
同第五発明者の署名 日付	Fifth inventor's signature Date <u>Akihiro Hori</u> March 26, 1999
住所	Residence Shinjuku-ku, Tokyo, Japan JPX
国籍	Citizenship Japanese
郵便の宛先	Post Office Address c/o CITIZEN WATCH CO., LTD., 1-1, 2-chome,
	Nishi-Shinjuku, Shinjuku-ku, Tokyo, Japan

6-00

第六の共同発明者の氏名 (該当する場合)	Full name of sixth joint inventor, if any <u>Masashi Ozaki</u>
同第六発明者の署名 日付	Sixth inventor's signature Date <u>Masashi Ozaki</u> March 26, 1999
住所	Residence Tanashi-shi, Tokyo, Japan JPX
国籍	Citizenship Japanese
郵便の宛先	Post Office Address c/o CITIZEN WATCH CO., LTD., Tanashi Factory,
	1-12, Honcho, 6-chome, Tanashi-shi, Tokyo, Japan

(第七またはそれ以降の共同発明者に対しても同様な情報及び署名を提供すること。)

(Supply similar information and signature for seventh and subsequent joint inventors.)

第七共同発明者	Full name of seventh joint inventor, if any <u>7-00</u> <u>Eiichi Sakita</u>		
第七共同発明者	日付	Seventh inventor's signature <u>Eiichi Sakita</u>	Date March 26, 1999
住 所	Residence Shinjuku-ku, Tokyo, Japan <u>JKY</u>		
国 籍	Citizenship Japanese		
私書箱	Post Office Address c/o CITIZEN WATCH CO., LTD., 1-1, 2-chome, Nishi-Shinjuku, Shinjuku-ku, Tokyo, Japan		
第八共同発明者	Full name of eighth joint inventor, if any		
第八共同発明者	日付	Eighth inventor's signature	Date
住 所	Residence		
国 籍	Citizenship		
私書箱	Post Office Address		

第九共同発明者	Full name of ninth joint inventor, if any		
第九共同発明者	日付	Ninth inventor's signature	Date
住 所	Residence		
国 籍	Citizenship		
私書箱	Post Office Address		
第十共同発明者	Full name of tenth joint inventor, if any		
第十共同発明者	日付	Tenth inventor's signature	Date
住 所	Residence		
国 籍	Citizenship		
私書箱	Post Office Address		

(第十一以降の共同発明者についても同様に記載し、署名をすること)

(Supply similar information and signature for eleventh and subsequent joint inventors.)